Made in Germany

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

Printing date 15.09.2022 Version number 2.00 (replaces version 1.00) Revision: 29.08.2022

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

1.1 Product identifier
Trade name: HM MOTORENÖL 0W-40 RACE

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the mixture Motor Oil

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
HM Mineralölhandelsgesellschaft mbH
Lange Straße 100-106
27318 Hoya
Tel. +49 (4251) 81251
products@hm-mineraloel.de
www.hm-mineraloel.de

Further information obtainable from: product management

1.4 Emergency telephone number:
24-hour emergency contact number : +1 872 5888271 (CSG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
The product is not classified, according to the CLP regulation.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 Void
Hazard pictograms Void
Signal word Void
Hazard statements Void
Additional information:
Contains: Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.
Safety data sheet available on request.

2.3 Other hazards
The substances in the mixture do not fulfil the PBT/vPvB criteria according to REACH, Annex XIII.
The product does not contain any (>0.1%) substances of very high concern (SVHC) included in the candidate list according to REACH, Article 59.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 64742-54-7 EINECS: 265-157-1 Reg.nr.: 01-2119484627-25	Distillates (petroleum), hydrotreated heavy paraffinic Asp. Tox. 1, H304	35-<40%
CAS: 68037-01-4 NLP: 500-183-1 Reg.nr.: 01-2119486452-34	1-Decene, homopolymer, hydrogenated Asp. Tox. 1, H304	35-<40%
CAS: 64741-88-4	Distillates (petroleum), solvent-refined heavy paraffinic Asp. Tox. 1, H304	15-<20%
CAS: 36878-20-3 EINECS: 253-249-4 Reg.nr.: 01-2119488911-28	Bis(nonylphenyl)amine Aquatic Chronic 4, H413	1-<5%

(Contd. on page 2)

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

Printing date 15.09.2022 Version number 2.00 (replaces version 1.00) Revision: 29.08.2022

Trade name: HM MOTORENÖL 0W-40 RACE

(Contd. of page 1)

CAS: 68784-26-9 EC number: 701-251-5 Reg.nr.: 01-2119524004-56	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased Aquatic Chronic 4, H413	1-<5%
CAS: 68784-31-6 EINECS: 272-238-5 Reg.nr.: 01-2119657973-23	Phosphordithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts Eye Dam. 1, H318; Aquatic Chronic 2, H411	1-<5%

Additional information:
Note L : 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.
For the wording of the listed hazard phrases refer to 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.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact:
After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.
After eye contact:
Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.
After swallowing:
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
If swallowed or vomited, danger of entering the lungs.
4.3 Indication of any immediate medical attention and special treatment needed
Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
Sand. Foam. Carbon dioxide (CO2).Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.
Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture
When burning strong soot development
Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2). Sulphur dioxide (SO2). Nitrogen oxides (NOx). Phosphorus oxides.
5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.
Protective equipment:
Collect contaminated extinguishing water separately. Do not allow to enter drains or watercourses.
Adapt extinguishing measures to the surroundings.

(Contd. on page 3)

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

Printing date 15.09.2022 Version number 2.00 (replaces version 1.00) Revision: 29.08.2022

Trade name: HM MOTORENÖL 0W-40 RACE

(Contd. of page 2)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
Prevent from spreading (e.g. by damming-in or oil barriers).
Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Wear suitable protective clothing.
Avoid formation of oil dust.
Information about fire - and explosion protection:
Usual measures of preventive fire protection
Keep ignition sources away - Do not smoke.
Fire class B

Handling:
Do not breathe vapour/aerosol. Avoid contact with eyes and skin.
Advices on general occupational hygiene: See section 8.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Keep container tightly closed in a dry, cool and well-ventilated place.
Use only receptacles specifically permitted for this substance/product.
Information about storage in one common storage facility:
Do not store together with: Gas. Explosives. Oxidizing substances.
Solid substances with flammable (oxidising) properties. Flammable (oxidising) liquids. Radioactive substances. Infectious substances.
Further information about storage conditions:
Temperature control required. Protect from light. Keep container tightly closed. Do not allow contact with air.
Storage class: 10

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs		
CAS: 36878-20-3 Bis(nonylphenyl)amine		
Dermal	DNEL, acute, dermal, systemic	5 mg/kg KG/d

(Contd. on page 4)

(Contd. of page 3)

CAS: 68784-26-9 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased		
Oral	long-term, oral, systemic	0.25 mg/kg KG/d
	DNEL, acute, oral, systemic	50 mg/kg KG/d
Dermal	DNEL, acute dermal systemic	80 mg/kg KG/d
	long-term, dermal, systemic	0.5 mg/kg KG/d
	DNEL, acute, dermal, systemic	40 mg/kg KG/d
Inhalative	long-term, inhalation, systemic	3.5 mg/m³
	DNEL, acute, inhalation, systemic	0.067 mg/m³
	long-term, inhalation, systemic	0.87 mg/m³
	DNEL, acute, inhalation, systemic	133.6 mg/m³
CAS: 68784-31-6 Phosphordithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts		
Oral	long-term, oral, systemic	0.21 mg/kg KG/d
	DNEL, acute, oral, systemic	29 mg/kg KG/d
Dermal	long-term, dermal, systemic	10.42 mg/kg KG/d
	DNEL, acute, dermal, systemic	100 mg/kg KG/d
	long-term, dermal, systemic	2.1 mg/kg KG/d
	DNEL, acute, dermal, systemic	50 mg/kg KG/d
Inhalative	long-term, inhalation, systemic	2.93 mg/m³
	DNEL, acute, inhalation, systemic	496.4 mg/m³
	long-term, inhalation, systemic	11.75 mg/m³
	DNEL, acute, inhalation, systemic	198.6 mg/m³

PNECs	
CAS: 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic	
Secondary poisoning	9.33 mg/kg
CAS: 36878-20-3 Bis(nonylphenyl)amine	
PNEC (Freshwater)	0.1 mg/l
Freshwater (intermittent releases)	1 mg/l
PNEC (Seawater)	0.01 mg/l
PNEC seawater (intermittent release)	13,200 mg/kg
Micro-organisms in sewage treatment plants (STP)	1 mg/l
PNEC (freshwater sediment)	132,000 mg/kg
PNEC (ground)	263,000 mg/kg
CAS: 68784-26-9 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	
PNEC (Freshwater)	0.5 mg/l
Freshwater (intermittent releases)	5 mg/l
PNEC (Seawater)	0.04 mg/l
Micro-organisms in sewage treatment plants (STP)	100 mg/l
PNEC (freshwater sediment)	43,500 mg/kg
PNEC (Seawater sediment)	3,480 mg/kg
PNEC (ground)	8,850 mg/kg
Secondary poisoning	13,333 mg/kg
CAS: 68784-31-6 Phosphordithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	
PNEC (Freshwater)	0.04 mg/l
PNEC (Seawater)	0.0046 mg/l
Micro-organisms in sewage treatment plants (STP)	3.8 mg/l
PNEC (freshwater sediment)	0.07 mg/kg
PNEC (Seawater sediment)	0.007 mg/kg

(Contd. on page 5)

(Contd. of page 4)

PNEC (ground)	0.055 mg/kg
Secondary poisoning	8.33 mg/kg

Additional information:
Additional information on limit values
Airborne limit values:
Possibility of exposure to aerosol (mineral oil).
Limit value (TLV-TWA) = 5 mg/m3 - Source: ACGIH
TLV-STEL = 10 mg/m3 - Source: ACGIH
STEL: short-term exposure limits
TLV: Threshold Limiting Value
TWA: time weighted average
ACGIH:American Conference of Governmental Industrial Hygienists
The safety data sheet of the pre-supplier served as the basis for the creation.

8.2 Exposure controls Provide adequate ventilation.
Appropriate engineering controls No further data; see item 7.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Wash hands before breaks and at the end of work.
Do not carry product impregnated cleaning cloths in trouser pockets.
Do not wear contaminated work clothing outside the workplace.
Wash contaminated clothing before wearing again.
Respiratory protection:
With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at:
-aerosol or mist formation
-Exceeding exposure limit values
Suitable respiratory protection apparatus: Respiratory equipment in case of nebulosity or aerosol: Use a mask with a filter type A2, A2/P2 or ABEK.
Hand protection

Protective gloves

Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 347/EN 388.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection

Tightly sealed goggles

EN 166
Body protection:
Heavy flammable, oil-repellent protective clothing

(Contd. on page 6)

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

Printing date 15.09.2022 Version number 2.00 (replaces version 1.00) Revision: 29.08.2022

Trade name: HM MOTORENÖL 0W-40 RACE

(Contd. of page 5)

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Fluid
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	-48 °C (Pourpoint (ISO 3016))
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	240 °C (COC)
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity at 40 °C	81.62 mm²/s (DIN EN ISO 3104)
Kinematic at 40°C	
Dynamic:	Not determined.
Solubility	
water:	Immiscible
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 15 °C:	0.845 g/cm³ (DIN 51757)
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Change in condition	
Evaporation rate	Not determined.

Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void

(Contd. on page 7)

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

Printing date 15.09.2022 Version number 2.00 (replaces version 1.00) Revision: 29.08.2022

Trade name: HM MOTORENÖL 0W-40 RACE

(Contd. of page 6)

Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
The product is chemically stable under recommended conditions of storage, use and temperature.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials: Materials to avoid: Strong oxidizing agents
10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
CAS: 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic		
Oral	LD50 oral	>5,000 mg/kg (rat) (OECD Guideline 401)
Dermal	LD50 dermal	>2,000 mg/kg (rabbit) (OECD Guideline 402)
CAS: 68037-01-4 1-Decene, homopolymer, hydrogenated		
Oral	LD50 oral	>5,000 mg/kg (rat)
Dermal	LD50 dermal	>2,000 mg/kg (rat)
Inhalative	LC50 Acute inhalation toxicity (dust/mist):	>5.2 mg/l (rat) (OECD 403)
CAS: 36878-20-3 Bis(nonylphenyl)amine		
Oral	LD50 oral	>5,000 mg/kg (rat)
CAS: 68784-26-9 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased		
Oral	LD50 oral	>5,000 mg/kg (rat) (OECD Guideline 401)
Dermal	LD50 dermal	>4,000 mg/kg (rabbit) (OECD Guideline 402)
CAS: 68784-31-6 Phosphordithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts		
Oral	LD50 oral	>2,000 mg/kg (rat) (OECD Guideline 401)
Dermal	LD50 dermal	>5,000 mg/kg (rabbit) (OECD Guideline 402)

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
Contains benzenesulfonic acid, methyl, mono-C20-24 branched alkyl derivatives, calcium salts. May cause allergic reactions.
May cause sensitisation in sensitive individuals.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.

(Contd. on page 8)

(Contd. of page 7)

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

Additional toxicological information:	
CAS: 36878-20-3 Bis(nonylphenyl)amine	
NOAEL	≥500 mg/kg; (rat) (OECD Guideline 414)
CAS: 68784-26-9 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	
NOAEL	50 mg/kg; (rat) (OECD Guideline 416)
CAS: 68784-31-6 Phosphordithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	
NOAEL	125 mg/kg; /(28d) (rat) (OECD Guideline 407)

11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

Other information Frequent contact may cause skin and eye irritation, especially after drying.

SECTION 12: Ecological information

12.1 Toxicity

If this product contains phenol, dodecyl-, branched (EC No.:310-154-3), this product is not classified as dangerous for the environment (H410, H411, H412). Raw materials containing this substance have not been classified as dangerous for the environment (H410, H411) by our suppliers on the basis of test data, expert judgement or analogy assessments.

Aquatic toxicity:	
CAS: 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic	
NOEC	10 mg/l /(21d) (Daphnia magna) ((OECD Guideline 211))
CAS: 68037-01-4 1-Decene, homopolymer, hydrogenated	
NOEC	125 mg/L /(21d) (Daphnia magna) ((OECD Guideline 211))
LL50	>1,000 mg/l /(96h) (Pimephales promelas) USEPA (1975)
EL50	>1,000 mg/l /(48h) (Daphnia magna) (OECD 202)
CAS: 36878-20-3 Bis(nonylphenyl)amine	
EC50	>100 mg/L (Daphnia magna) (OECD 202)
LC50	>100 mg/L /(96h) (Brachydanio rerio)
CAS: 68784-26-9 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	
ErC50	>500 mg/l /(96h) (Pseudokirchnerella subcapitata) (OECD 201)
LL50	>1,000 mg/l /(96h) (Pimephales promelas) (OECD 203)
EC50	>1,000 mg/L /(48h) (Daphnia magna) (OECD 202)
CAS: 68784-31-6 Phosphordithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	
NOEC	0.4 mg/L /(21d) (Daphnia magna) ((OECD Guideline 211))
LL50	4.4 mg/l /(96h) (Oncorhynchus mykiss) (OECD 203)
EL50	75 mg/l /(48h) (Daphnia magna) (OECD 202)
	410 mg/l /(72h) (Desmodesdus subspicatus) (OECD 201)

12.2 Persistence and degradability

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

CAS: 64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic	
Persistence and degradability	31 % /(28d) (OECD 301F / ISO 9408 / EWG 92/69 Anhang V,C.4-D)
Persistence and degradability	Not readily biodegradable (according to OECD criteria).
Persistence and degradability	2–4 % /(28d) (OECD 301B / ISO 9439 / EWG 92/69 Anhang V,C.4-C)
Persistence and degradability	Not readily biodegradable (according to OECD criteria).

(Contd. on page 9)

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

Printing date 15.09.2022 Version number 2.00 (replaces version 1.00) Revision: 29.08.2022

Trade name: HM MOTORENÖL 0W-40 RACE

(Contd. of page 8)

CAS: 68037-01-4 1-Decene, homopolymer, hydrogenated	
Persistence and degradability	2 % /(28d) (OECD 301D / EWG 92/69 Anhang V, C.4-E)
Persistence and degradability	Not readily biodegradable (according to OECD criteria).
CAS: 36878-20-3 Bis(nonylphenyl)amine	
Persistence and degradability	1 % /(28d) (OECD 301B / ISO 9439 / EWG 92/69 Anhang V,C.4-C)
Persistence and degradability	Not readily biodegradable (according to OECD criteria).
CAS: 68784-26-9 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	
Persistence and degradability	13.4 % (OECD 301B / ISO 9439 / EWG 92/69 Anhang V,C.4-C) Not readily biodegradable (according to OECD criteria).
CAS: 68784-31-6 Phosphordithioic acid, mixed O, O-bis (sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	
Persistence and degradability	<5 % /(27d) (EU Method C.6)
Persistence and degradability	Easily biodegradable (according to OECD criteria)

12.3 Bioaccumulative potential
No indication of bioaccumulation potential.

CAS: 68037-01-4 1-Decene, homopolymer, hydrogenated	
Partition coefficient n-octanol/water	>6.5
CAS: 68784-26-9 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	
BCF	2.2 lipid triolein
Partition coefficient n-octanol/water	9.5

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects
Additional ecological information:
General notes:
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation Dispose of waste according to applicable legislation.

European waste catalogue	
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP14	Ecotoxic

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

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA not regulated

14.2 UN proper shipping name
ADR, IMDG, IATA not regulated

(Contd. on page 10)

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

Printing date 15.09.2022 Version number 2.00 (replaces version 1.00) Revision: 29.08.2022

Trade name: HM MOTORENÖL 0W-40 RACE

(Contd. of page 9)

14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	not regulated
14.4 Packing group	
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008 Void
Hazard pictograms Void
Signal word Void
Hazard statements Void

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
Seveso category Not subject to 2012/18/EU (SEVESO III)

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.
Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.
Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H304 May be fatal if swallowed and enters airways.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 11)

Made in Germany

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

Printing date 15.09.2022 Version number 2.00 (replaces version 1.00) Revision: 29.08.2022

Trade name: HM MOTORENÖL 0W-40 RACE

(Contd. of page 10)

H413 May cause long lasting harmful effects to aquatic life.

Department issuing SDS: product management
Contact: product management
Date of previous version: 07.10.2021
Version number of previous version: 1.00
Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
Sources The safety data sheet of the pre-supplier served as the basis for the creation.
*** Data compared to the previous version altered.**