

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MAXX 75W-90 Getriebeöl, HC-Synthetisch

Version
2.0

Revision Date:
17.09.2018

Date of last issue: 19.05.2017
Date of first issue: 19.05.2017

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

1.1 Product identifier

Trade name : MAXX 75W-90 Getriebeöl, HC-Synthetisch

Product code : JM-Nr.: 714 03 65 (1L)

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

Use of the Sub-
stance/Mixture : Gear oil

1.3 Details of the supplier of the safety data sheet

Company : Johannes J. Matthies GmbH & Co. KG
Hammerbrookstr. 97
20097 Hamburg
Germany
www.matthies.de

Telephone : + 49 (0) 40 2 37 21-0
Telefax : + 49 (0) 40 237 21-390
Responsible/issuing person : info@matthies.de

1.4 Emergency telephone number

Telephone : 5d: 08:30 - 16:30
+ 49 (0) 40 2 37 21-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Precautionary statements

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling

EUH210 Safety data sheet available on request.

EUH208 Contains Olefin sulfide, Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). **May produce an allergic reaction.**

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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.

Material can create slippery conditions.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture
Hydrocarbons
Additives

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
baseoil - unspecified*			> 55 - < 75
distillates (petroleum), hydrotreated light naph- thenic	64742-53-6 265-156-6 01-2119480375-34	Asp. Tox. 1; H304	< 10
Olefin sulfide	68937-96-2 273-103-3 01-2119540515-43	Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 2,5 - < 10
Reaction products of bis(4- methylpentan-2- yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	931-384-6 01-2119493620-38	Eye Dam. 1; H318 Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 1 - < 2,5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aider needs to protect himself.

If inhaled : If breathed in, move person into fresh air.

In case of skin contact : Wash off with warm water and soap.
If on clothes, remove clothes.

In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MAXX 75W-90 Getriebeöl, HC-Synthetisch

Version
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If eye irritation persists, consult a specialist.

If swallowed : Do NOT induce vomiting.
Obtain medical attention.

When symptoms persist or in all cases of doubt seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Gastrointestinal discomfort
Stomach/intestinal disorders
Vomiting
Pneumonia
irritant effects

Risks : May cause eye irritation.
Risk of product entering the lungs on vomiting after ingestion.
Aspiration may cause pulmonary oedema and pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Later control for pneumonia and lung oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry powder
Foam
Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.
Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Complete suit protecting against chemicals

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MAXX 75W-90 Getriebeöl, HC-Synthetisch

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Keep people away from and upwind of spill/leak.
First aider needs to protect himself.
Use personal protective equipment.
Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation, especially in confined areas.
The danger areas must be delimited and identified using relevant warning and safety signs.
Refer to section 15 for specific national regulation.

6.2 Environmental precautions

- Environmental precautions : Prevent further leakage or spillage.
Avoid subsoil penetration.
Prevent product from entering drains.
- Local authorities should be advised if significant spillages cannot be contained.
- Do not contaminate water.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Use mechanical handling equipment.
- Soak up with oil absorbent material.
- Offer surplus and non-recyclable solutions to a licensed disposal company.

6.4 Reference to other sections

- For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Take care to avoid waste and spillage when weighing, loading and mixing the product.
Use only with adequate ventilation.
Avoid formation of aerosol.
Do not get on skin or clothing.
Avoid inhalation, ingestion and contact with skin and eyes.
- Advice on protection against fire and explosion : To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Take measures to prevent the build up of electrostatic charge. Keep away from heat and sources

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version
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of ignition. Keep in a bunded area. Do not smoke.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Take off all contaminated clothing immediately.

Fire-fighting class : Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep tightly closed.
Keep in a well-ventilated place.
To prevent leaks or spillages from spreading, provide a suitable liquid retention system.

Further information on storage conditions : Keep away from heat and sources of ignition.

Advice on common storage : Do not store together with explosives, gases, oxidizing solids, products which form flammable gases in contact with water, oxidizing products, infectious products and radioactive products.
Do not store together with oxidizing and self-igniting products.
Do not store together with explosives, oxidizing agents, organic peroxides and infectious products.
Do not store together with acids and ammonium salts.

Storage class (TRGS 510) : 10, Combustible liquids

Other data : Keep away from direct sunlight.

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-	Workers	Inhalation	Long-term systemic effects	8,56 mg/m ³

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MAXX 75W-90 Getriebeöl, HC-Synthetisch

Version
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alkyl (branched)				
	Workers	Dermal	Long-term systemic effects	12,5 mg/m ³

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

Substance name	Environmental Compartment	Value
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	Fresh water	0,001 mg/l
	Sewage treatment plant	24,33 mg/l
	Fresh water sediment	14,4 mg/l
	Soil	2,94 mg/l
	Oral (Secondary Poisoning)	10 mg/kg food

8.2 Exposure controls

Engineering measures

Provide adequate ventilation.

Apply technical measures to comply with the occupational exposure limits.

Personal protective equipment

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

If splashes are likely to occur, wear:

Safety glasses with side-shields conforming to EN166

Hand protection

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0,40 mm

Material : Viton (R)
Break through time : 480 min
Glove thickness : 0,70 mm

Material : butyl-rubber
Break through time : 120 min
Glove thickness : 0,70 mm

Material : Neoprene
Break through time : 60 min
Glove thickness : 0,60 mm

Remarks : Protective gloves complying with EN 374.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MAXX 75W-90 Getriebeöl, HC-Synthetisch

Version
2.0

Revision Date:
17.09.2018

Date of last issue: 19.05.2017
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This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Skin and body protection : Wear suitable protective equipment.

Respiratory protection : **No personal respiratory protective equipment normally required.**

Apply technical measures to comply with the occupational exposure limits.

Protective measures : Avoid contact with the skin and the eyes.
Do not breathe vapours or spray mist.
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : tan

Odour : No data available

Odour Threshold : No data available

pH : No data available

pour point : $\leq -39\text{ }^{\circ}\text{C}$
Method: ISO 3016

: No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version
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Revision Date:
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Flash point	: $\geq 170\text{ °C}$ Method: Cleveland open cup
Evaporation rate	: No data available
Burning rate	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: $0,855\text{ g/cm}^3$ (20 °C) Method: DIN 51757
Bulk density	: No data available
Solubility(ies)	
Water solubility	: $< 0,01\text{ g/l}$ (20 °C)
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: not determined
Ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: $13,8 - 15,2\text{ mm}^2/\text{s}$ (100 °C) Method: ASTM D 445
Flow time	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

9.2 Other information

Self-heating substances	: No data available
Impact sensitivity	: No data available
Surface tension	: No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MAXX 75W-90 Getriebeöl, HC-Synthetisch

Version
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Revision Date:
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Refractive index	:	No data available
	:	No data available
Molecular weight	:	No data available
Self-ignition	:	

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is chemically stable.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : Incompatible with strong acids and oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Acute inhalation 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 toxicity (other routes of administration) : No data available

Components:

baseoil - unspecified*:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MAXX 75W-90 Getriebeöl, HC-Synthetisch

Version
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Revision Date:
17.09.2018

Date of last issue: 19.05.2017
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Information given is based on data obtained from similar substances.

- Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l
Exposure time: 4 h
Test atmosphere: Aerosol
Method: OECD Test Guideline 403
Information given is based on data obtained from similar substances.
- Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
Method: OECD Test Guideline 402
Information given is based on data obtained from similar substances.

Skin corrosion/irritation

Product:

slight irritation

Non persistent irritation

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

Serious eye damage/eye irritation

Product:

Non persistent irritation

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

Components:

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

Result: No eye irritation

Concentration limits

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

Respiratory or skin sensitisation

Product:

Exposure routes: Skin contact

Result: May cause sensitisation of susceptible persons.

Concentration limits

Data from similar compositions

On basis of test data.

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

Exposure routes: Inhalation

No known sensitising effect.

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version
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Revision Date:
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Germ cell mutagenicity

Product:

Genotoxicity in vitro : Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Based on available data, the classification criteria are not met.

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

Components:

baseoil - unspecified*:

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

distillates (petroleum), hydrotreated light naphthenic:

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

Reproductive toxicity

Product:

Effects on fertility : This information is not available.

Effects on foetal development : This information is not available.

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

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

STOT - repeated exposure

Product:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MAXX 75W-90 Getriebeöl, HC-Synthetisch

Version
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Repeated dose toxicity

Product:

This information is not available.

Repeated dose toxicity - : No data available
Assessment

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:

No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish (Chronic tox- : No data available
icity)

Toxicity to daphnia and other : No data available
aquatic invertebrates (Chron-
ic toxicity)

Ecotoxicology Assessment

Short-term (acute) aquatic : Based on available data, the classification criteria are not met.
hazard

Long-term (chronic) aquatic : Based on available data, the classification criteria are not met.
hazard

Toxicity Data on Soil : No data available

Other organisms relevant to : No data available
the environment

Components:

baseoil - unspecified*:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Information given is based on data obtained from similar sub-
stances.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MAXX 75W-90 Getriebeöl, HC-Synthetisch

Version
2.0

Revision Date:
17.09.2018

Date of last issue: 19.05.2017
Date of first issue: 19.05.2017

- NOEL (Pimephales promelas (fathead minnow)): ≥ 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Information given is based on data obtained from similar substances.
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10.000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Information given is based on data obtained from similar substances.
- NOEL (Daphnia magna (Water flea)): ≥ 1.000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Information given is based on data obtained from similar substances.
- Toxicity to algae : NOEL (Pseudokirchneriella subcapitata (green algae)): ≥ 100 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
Information given is based on data obtained from similar substances.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL: 10 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Information given is based on data obtained from similar substances.

|| Olefin sulfide:

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 63 mg/l
Exposure time: 48 h
- Toxicity to algae : EC50 (algae): > 100 mg/l
Exposure time: 72 h
- Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l
Exposure time: 2,4 h

|| Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l
Exposure time: 96 h
- NOEC (Oncorhynchus mykiss (rainbow trout)): 3,2 mg/l
Exposure time: 96 h
- LC50 (Fat head minnow): 8,5 mg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MAXX 75W-90 Getriebeöl, HC-Synthetisch

Version
2.0

Revision Date:
17.09.2018

Date of last issue: 19.05.2017
Date of first issue: 19.05.2017

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 91,4 mg/l
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,12 mg/l
Exposure time: 21 d
Species: Daphnia (water flea)

EC50: 0,66 mg/l
Exposure time: 21 d
Species: Daphnia (water flea)

12.2 Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

Physico-chemical removability : The product is insoluble and floats on water.
May be separated mechanically in waste water plants.

Impact on Sewage Treatment : No data available

Components:

|| Olefin sulfide:

Biodegradability : Biodegradation: 13 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Product:

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : not determined

Components:

|| Olefin sulfide:

Partition coefficient: n-octanol/water : log Pow: 6

12.4 Mobility in soil

Product:

Mobility : Should not be released into the environment.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version
2.0

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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 Other adverse effects

Product:

Additional ecological information : Do not let product enter drains.

Should not be released into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

13 02 06*

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
Dispose of in accordance with local regulations.

15 01 10*

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : not required
Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

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, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : 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 contaminating class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : No data available

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Chronic : Long-term (chronic) aquatic hazard

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Asp. Tox. : Aspiration hazard
Eye Dam. : Serious eye damage
Skin Sens. : Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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 population; 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : **base oil - unspecified***
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Changes since the last version are highlighted in the margin.
This version replaces all previous versions.

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MAXX 75W-90 Getriebeöl, HC-Synthetisch

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