

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HIGHTEC SUNLUB SYNTH TOPGEAR SAE 80W-90

Revision date: 25.01.2024

Product code: 49880

Page 1 of 10

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

HIGHTEC SUNLUB SYNTH TOPGEAR SAE 80W-90

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Gear oil

1.3. Details of the supplier of the safety data sheet

| | | |
|-----------------|-------------------------|-------------------------------|
| Company name: | ROWE Mineralölwerk GmbH | |
| Street: | Langgewann 101 | |
| Place: | D-67547 Worms | |
| Telephone: | +49 (0)6241 5906-0 | Telefax: +49 (0)6241 5906-999 |
| E-mail: | info@rowe-oil.com | |
| Contact person: | Product Compliance | |
| E-mail: | sdb@rowe-oil.com | |
| Internet: | www.rowe-oil.com | |

1.4. Emergency telephone number:

Ireland: Public (8am-10pm) +353 180 921 66, Healthcare Professionals +353 1809 2566 other Countries: Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin Sens. 1; H317
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

Amines, C10-14-tert-alkyl

Signal word: Warning**Pictograms:****Hazard statements**

H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 IF ON SKIN: Wash with plenty of Water and soap.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container to of the disposal according to local regulations.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HIGHTEC SUNLUB SYNTH TOPGEAR SAE 80W-90

Revision date: 25.01.2024

Product code: 49880

Page 2 of 10

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|--------------|---|----------|------------------|---------------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| | Amines, C10-14-tert-alkyl | | | 0.1 - < 0.3 % |
| | 701-175-2 | | 01-2119456798-18 | |
| | Acute Tox. 2, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H302 H314 H318 H317 H400 H410 | | | |
| 1213789-63-9 | C16-18-(even numbered, saturated and unsaturated)-alkylamines | | | 0.1 - < 0.3 % |
| | 627-034-4 | | 01-2119473797-19 | |
| | Acute Tox. 4, Skin Corr. 1B, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H335 H373 H304 H400 H410 | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|--------------|---|---|---------------|
| | Specific Conc. Limits, M-factors and ATE | | |
| | 701-175-2 | Amines, C10-14-tert-alkyl | 0.1 - < 0.3 % |
| | inhalation: LC50 = 1,19 mg/l (vapours); dermal: LD50 = 251 mg/kg; oral: LD50 = 552 mg/kg | | |
| 1213789-63-9 | 627-034-4 | C16-18-(even numbered, saturated and unsaturated)-alkylamines | 0.1 - < 0.3 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1689 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10 | | |

SECTION 4: First aid measures
4.1. Description of first aid measures
After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

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

After ingestion

Rinse mouth immediately and drink 1 glass of water.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures
5.1. Extinguishing media

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HIGHTEC SUNLUB SYNTH TOPGEAR SAE 80W-90

Revision date: 25.01.2024

Product code: 49880

Page 3 of 10

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Avoid contact with skin, eyes and clothes. Do not breathe mist/vapours/spray.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Remove persons to safety.

For emergency responders

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**For containment**

Stop leak if safe to do so. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

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.

Other information

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HIGHTEC SUNLUB SYNTH TOPGEAR SAE 80W-90

Revision date: 25.01.2024

Product code: 49880

Page 4 of 10

7.3. Specific end use(s)

Gear oil

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------|---|----------------|----------|-------------------------|
| | Amines, C10-14-tert-alkyl | | | |
| | Worker DNEL, long-term | inhalation | systemic | 12,5 mg/m ³ |
| | Worker DNEL, long-term | inhalation | local | 12,1 mg/m ³ |
| | Consumer DNEL, long-term | inhalation | systemic | 2,5 mg/m ³ |
| | Consumer DNEL, long-term | inhalation | local | 1,2 mg/m ³ |
| | Consumer DNEL, long-term | oral | systemic | 0,35 mg/kg bw/day |
| 1213789-63-9 | C16-18-(even numbered, saturated and unsaturated)-alkylamines | | | |
| | Worker DNEL, long-term | inhalation | systemic | 0,38 mg/m ³ |
| | Worker DNEL, long-term | inhalation | local | 1 mg/m ³ |
| | Worker DNEL, acute | inhalation | local | 1 mg/m ³ |
| | Consumer DNEL, long-term | inhalation | systemic | 0,035 mg/m ³ |
| | Consumer DNEL, long-term | oral | systemic | 0,04 mg/kg bw/day |

PNEC values

| CAS No | Substance | Value |
|--------------|---|---------------|
| | Amines, C10-14-tert-alkyl | |
| | Freshwater | 0,001 mg/l |
| | Freshwater (intermittent releases) | 0,004 mg/l |
| | Marine water | 0 mg/l |
| | Freshwater sediment | 2,14 mg/kg |
| | Marine sediment | 0,214 mg/kg |
| | Secondary poisoning | 4,71 mg/kg |
| | Micro-organisms in sewage treatment plants (STP) | 0,635 mg/l |
| | Soil | 0,428 mg/kg |
| 1213789-63-9 | C16-18-(even numbered, saturated and unsaturated)-alkylamines | |
| | Freshwater | 0,00026 mg/l |
| | Freshwater (intermittent releases) | 0,0016 mg/l |
| | Marine water | 0,000026 mg/l |
| | Freshwater sediment | 3,76 mg/kg |
| | Marine sediment | 0,376 mg/kg |
| | Micro-organisms in sewage treatment plants (STP) | 0,55 mg/l |
| | Soil | 10 mg/kg |

HIGHTEC SUNLUB SYNTH TOPGEAR SAE 80W-90

Revision date: 25.01.2024

Product code: 49880

Page 5 of 10

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|--|----------------------------|
| Physical state: | Liquid | |
| Colour: | brown | |
| Odour: | characteristic | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | not determined |
| Flammability: | | Not readily combustible. |
| Lower explosion limits: | | not determined |
| Upper explosion limits: | | not determined |
| Flash point: | | >180 °C |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature: | | not determined |
| pH-Value: | | not determined |
| Viscosity / kinematic: (at 100 °C) | | ~ 14,82 mm ² /s |
| Water solubility: | The study does not need to be conducted because the substance is known to be insoluble in water. | |
| Solubility in other solvents | not determined | |
| Partition coefficient n-octanol/water: | | not determined |
| Vapour pressure: | | not determined |
| Density (at 15 °C): | | ~ 0,950 g/cm ³ |
| Relative vapour density: | | not determined |
| Particle characteristics: | | not relevant |

9.2. Other information

No information available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HIGHTEC SUNLUB SYNTH TOPGEAR SAE 80W-90

Revision date: 25.01.2024

Product code: 49880

Page 6 of 10

SECTION 10: Stability and reactivity
10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

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

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

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.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) 216379 mg/kg; ATE (inhalation vapour) 1026 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|--------------|---|-------------------|---------|---------------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| | Amines, C10-14-tert-alkyl | | | | |
| | oral | LD50 552 mg/kg | Mouse | Study report (2000) | OECD Guideline 401 |
| | dermal | LD50 251 mg/kg | Rat | Study report (1993) | OECD Guideline 402 |
| | inhalation (4 h) vapour | LC50 1,19 mg/l | Rat | Study report (2001) | OECD Guideline 403 |
| 1213789-63-9 | C16-18-(even numbered, saturated and unsaturated)-alkylamines | | | | |
| | oral | LD50 1689 mg/kg | Rat | Study report (1993) | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (1985) | OECD Guideline 402 |

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (Amines, C10-14-tert-alkyl)

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HIGHTEC SUNLUB SYNTH TOPGEAR SAE 80W-90

Revision date: 25.01.2024

Product code: 49880

Page 7 of 10

Aspiration hazard

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

11.2. Information on other hazards
Other information

No information available.

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information
12.1. Toxicity

Harmful to aquatic life with long lasting effects.

| CAS No | Chemical name | | | | | |
|--------|---------------------------|---------------|-----------|---------|------------------------------------|---|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| | Amines, C10-14-tert-alkyl | | | | | |
| | Acute algae toxicity | ErC50 mg/l | 0,44 | 72 h | Pseudokirchneriella subcapitata | Study report (1994) OECD Guideline 201 |
| | Fish toxicity | NOEC mg/l | 0,078 | 96 d | Oncorhynchus mykiss | Study report (2002) OECD Guideline 210 |

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|--------------|---|---------|
| | Amines, C10-14-tert-alkyl | 2,9 |
| 1213789-63-9 | C16-18-(even numbered, saturated and unsaturated)-alkylamines | 5,16 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|--------------|---|-----|---------|----------------------|
| 1213789-63-9 | C16-18-(even numbered, saturated and unsaturated)-alkylamines | 173 | | Environmental Toxico |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HIGHTEC SUNLUB SYNTH TOPGEAR SAE 80W-90

Revision date: 25.01.2024

Product code: 49880

Page 8 of 10

List of Wastes Code - residues/unused products

130206 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils; hazardous waste

List of Wastes Code - used product

130206 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils; hazardous waste

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to Directive 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HIGHTEC SUNLUB SYNTH TOPGEAR SAE 80W-90

Revision date: 25.01.2024

Product code: 49880

Page 9 of 10

Water hazard class (D): 1 - slightly hazardous to water
Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2,11,12.

Abbreviations and acronyms

Acute Tox: Acute toxicity
Asp. Tox: Aspiration hazard
Skin Corr: Skin corrosion
Eye Dam: Eye damage
Skin Sens: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Safety Data Sheet

according to Regulation (EC) No 1907/2006

HIGHTEC SUNLUB SYNTH TOPGEAR SAE 80W-90

Revision date: 25.01.2024

Product code: 49880

Page 10 of 10

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Skin Sens. 1; H317 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal 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. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)