

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SYNT HC ECO-FO SAE 5W-20**

Revision date: 09.01.2018

Page 1 of 10

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

HIGHTEC SYNT HC ECO-FO SAE 5W-20

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

Motor oil

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

Company name:	ROWE MINERALOELWERK GMBH	
Street:	Langgewann 101	
Place:	D-67547 Worms	
Telephone:	+49 (0)6241 5906-0	Telefax: +49 (0)6241 5906-999
e-mail:	info@rowe-mineraloel.com	
Internet:	www.rowe-mineraloel.com	
Responsible Department:	Kundenservice	

**1.4. Emergency telephone number:** Giftnotruf Mainz (DE; E) +49 (0)6131-19240**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P103 Read label before use.

P273 Avoid release to the environment.

P501 Dispose of contents/container to of the disposal according to local regulations.

**2.3. Other hazards**

No data available

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SYNT HC ECO-FO SAE 5W-20**

Revision date: 09.01.2018

Page 2 of 10

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based			30 - < 60 %
	276-738-4	649-483-00-5	01-2119474889-13	
	Asp. Tox. 1; H304			
	Reaction products of Benzeneamine, N-phenyl-with nonene (branched)			1 - < 2.5 %
	253-249-4		01-2119488911-28	
	Aquatic Chronic 4; H413			
122-39-4	Diphenylamine			0.1 - < 0.3 %
	204-539-4			
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
121158-58-5	Phenole, dodecyl-, branched			0.1 - < 0.3 %
	310-154-3		01-2119513207-49	
	Repr. 1A, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H360 H314 H318 H400 H410			

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

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

Self-protection of the first aider

Change contaminated clothing.

Do not put any product-impregnated cleaning rags into your trouser pockets.

**After inhalation**

Provide fresh air. In case of inhalation of aerosols/spray mist/splash spots: Consult physician.

Avoid breathing dust/fume/gas/mist/vapours/spray. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

In case of inhalation of aerosols/spray mist/splash spots: Consult physician.

**After contact with skin**

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

If skin irritation or rash occurs: Get medical advice/attention.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

No data available. No special hazards known when the product is properly used and the precautionary measures indicated are observed.

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

Treat symptomatically. Caution if victim vomits: Risk of aspiration!

Aspiration hazard: Call a physician immediately.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SYNT HC ECO-FO SAE 5W-20**

Revision date: 09.01.2018

Page 3 of 10

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.  
Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Foam.

**Unsuitable extinguishing media**

High power water jet.

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

Non-flammable. Special exposure hazards arising from the substance itself, combustion products, resulting gases:  
Carbon dioxide (CO<sub>2</sub>). Carbon monoxide Sulphur oxides. Phosphorus oxides. Hydrogen sulphide (H<sub>2</sub>S).

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. carbon black  
In case of fire and/or explosion do not breathe fumes.  
In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Dispose of waste according to applicable legislation.  
Use water spray jet to protect personnel and to cool endangered containers.

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

Special danger of slipping by leaking/spilling product.  
Wear suitable protective clothing.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.2. Environmental precautions**

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

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13 In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Protect skin by using skin protective cream. Wash hands before breaks and after work.  
Conditions to avoid: aerosol or mist generation.

**Advice on protection against fire and explosion**

No special measures are necessary.  
When using do not smoke.  
Fire class: B (DIN-/EN-Norms: EN2)

**Further information on handling**

No data available

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SYNT HC ECO-FO SAE 5W-20**

Revision date: 09.01.2018

Page 4 of 10

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

Keep container tightly closed.  
Keep away from heat. Keep/Store only in original container.

**Hints on joint storage**

Do not store together with: Food and fodder, Oxidizing agents.

**Further information on storage conditions**

If product enters soil, it will be mobile and may contaminate groundwater. Keep away from heat.

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

Motor oil

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**
**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
122-39-4	Diphenylamine	-	10		TWA (8 h)	WEL
		-	20		STEL (15 min)	WEL

**Additional advice on limit values**

No data available

**8.2. Exposure controls**

**Appropriate engineering controls**

No data available.

**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.  
When using do not eat, drink or smoke.

Protect skin by using skin protective cream.  
Keep away from food, drink and animal feedingstuffs.  
Do not breathe vapour.

**Eye/face protection**

Wear eye/face protection. In fine dispersion/spraying/misting: 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. Wear suitable gloves.. NBR (Nitrile rubber).

**Skin protection**

Wear suitable protective clothing. In fine dispersion/spraying/misting: Wear protective gloves/protective clothing.

according to Regulation (EC) No 1907/2006

**HIGHTEC SYNT HC ECO-FO SAE 5W-20**

Revision date: 09.01.2018

Page 5 of 10

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**Environmental exposure controls**

No data available

**SECTION 9: Physical and chemical properties**

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

Physical state: liquid  
 Colour: yellow-brown  
 Odour: characteristic

pH-Value:

not applicable **Test method**  
 DIN 51369

**Changes in the physical state**

Melting point: not determined  
 Initial boiling point and boiling range: not determined  
 Pourpoint: <-36 °C DIN ISO 3016  
 Flash point: >195 °C DIN ISO 2592

**Flammability**

Solid: not applicable  
 Gas: not applicable  
 Lower explosion limits: not determined Literatur  
 Upper explosion limits: not determined Literatur  
 Ignition temperature: No data available

**Auto-ignition temperature**

Solid: not applicable  
 Gas: not applicable  
 Decomposition temperature: not determined

**Oxidizing properties**

Not oxidizing.

Vapour pressure: <0,1 hPa calculated.  
 (at 20 °C)

Density (at 15 °C): ~0,85 g/cm³ DIN 51757

Water solubility: practically insoluble  
 (at 20 °C)

**Solubility in other solvents**

Soluble in hydrocarbons (mineral oil.)

Partition coefficient: not determined

Viscosity / kinematic: 7,8-9 mm²/s DIN 51562  
 (at 100 °C)

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: No data available

Solvent content: none Solvents

**9.2. Other information**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SYNT HC ECO-FO SAE 5W-20**

Revision date: 09.01.2018

Page 6 of 10

Solid content: not determined  
 none

**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

Oxidizing agents, strong.. Etchant and acids

**10.2. Chemical stability**

No thermal decomposition if properly stored / handled /transported.  
 Onset of decomposition at elevated temperatures (>100°C): (e.g. H2S)

**10.3. Possibility of hazardous reactions**

possible with strong oxidizing agents.  
 This product is stable under normal conditions. Hazardous reactions are unlikely.

**10.4. Conditions to avoid**

possible with strong oxidizing agents.

**10.5. Incompatible materials**

Oxidizing agents, strong.. Etchant and acids

**10.6. Hazardous decomposition products**

none

**Further information**

No thermal decomposition if properly stored / handled /transported.

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**
**Toxicokinetics, metabolism and distribution**

No data available.

**Acute toxicity**

No data available.  
 Irritant effect on the respiratory tract: Do not breathe gas/vapour.

**Irritation and corrosivity**

Irritant effect on the skin: none  
 Frequent and prolonged eye contact may cause eye irritation.

**Sensitising effects**

Due to the very low concentration of sensitizing substances, the finished product can be assumed not to be skin-sensitizing.

**Carcinogenic/mutagenic/toxic effects for reproduction**

The product is not classified.

**STOT-repeated exposure**

Frequently or prolonged contact with skin may cause dermal irritation.

**Specific effects in experiment on an animal**

No data available.

**Additional information on tests**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).  
 none

**Practical experience**
**Observations relevant to classification**

not applicable

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SYNT HC ECO-FO SAE 5W-20**

Revision date: 09.01.2018

Page 7 of 10

**Other observations**

Has de-greasing effect on the skin.

**Further information**

No special hazards known when the product is properly used and the precautionary measures indicated are observed.

**SECTION 12: Ecological information**
**12.1. Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. No data available.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based					
	Acute fish toxicity	LC50 > 100 mg/l	96 h		OECD 203	
	Acute algae toxicity	ErC50 >= 100 mg/l	72 h		OECD 201	
	Acute crustacea toxicity	EC50 > 10 000 mg/l	48 h		OECD 202	

**12.2. Persistence and degradability**

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants. Poorly eliminated from water.

Not easily bio-degradable (according to OECD-criteria). Product is partially biodegradable. Significant residues remain.

Post-use oils must not be discharged into the sewer system or into surface waters nor must they be allowed to enter the soil.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Reaction products of Benzeneamine, N-phenyl-with nonene (branched)			
	Sturm	0%	28	

**12.3. Bioaccumulative potential**

No data available.

Do not allow uncontrolled discharge of product into the environment.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	> 6
	Reaction products of Benzeneamine, N-phenyl-with nonene (branched)	3,6

**12.4. Mobility in soil**

No data available.

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

No data available

**12.6. Other adverse effects**

Aquatic organisms: No data available.

Effects in sewage plants No data available.

No data available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SYNT HC ECO-FO SAE 5W-20**

Revision date: 09.01.2018

Page 8 of 10

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**
**Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. The waste codes stated are recommendations based on the expected use of the substance and may be re-assigned to other waste codes by the user, if applicable.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

**Waste disposal number of waste from residues/unused products**

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

**Waste disposal number of used product**

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

**Waste disposal number of contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Dispose of this material and its container to hazardous or special waste collection point.

**SECTION 14: Transport information**
**Land transport (ADR/RID)**

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

**Inland waterways transport (ADN)**

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

**Marine transport (IMDG)**

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

**Air transport (ICAO-TI/IATA-DGR)**

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



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SYNT HC ECO-FO SAE 5W-20**

Revision date: 09.01.2018

Page 9 of 10

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

Motor oil. Protect containers against damage.

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

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 30: Phenole, dodecyl-, branched

**Additional information**

According to EC directives or the corresponding national regulations the product does not have to be labelled.

**National regulatory information**

Employment restrictions:

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

Water contaminating class (D):

2 - clearly water contaminating

**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): 2,3,4,5,6,7,8,9,11,12,13,14,15,16.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport 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 Harmonized 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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H360	May damage fertility or the unborn child.
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.
H413	May cause long lasting harmful effects to aquatic life.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**HIGHTEC SYNT HC ECO-FO SAE 5W-20**

Revision date: 09.01.2018

Page 10 of 10

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances 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 above data are intended to describe our product in terms of any safety requirements to be observed. They reflect the state of our current knowledge and experience and shall not be construed as warranted characteristics. Any warranty for accuracy and completeness shall be expressly excluded.

---

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