Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) RAVENOL HVS High Viscosity Synto Oil SAE 10W-60

RAVENOL

Page 1/9

Revision date: 30-Nov-2018 Version: 3 Print date: 03-Dec-2018

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

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

1.1. Product identifier

Trade name/designation:

RAVENOL HVS High Viscosity Synto Oil SAE 10W-60

Article No.:

1115102

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

Use of the substance/mixture: Lubricant

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor): **Ravensberger Schmierstoffvertrieb GmbH**

löllenbecker Str. 2 33824 Werther D Telephone: +49 5203 9719 0

Telefax: +49 5203 9719 40

E-mail: kontakt@ravenol.de

Website: www.ravenol.de

E-mail (competent person): technik@ravenol.de

* 1.4. Emergency telephone number

Abt. Technik (Produktsicherheit), 24h: +49 700 24 112 112 (Company ID: RAV) (outside USA/Canada) 011 49 700 24 112 112 (Company ID: RAV) (inside USA/Canada), +49 5203 9719 0 (Mo-Do 7.30 Uhr -16.30 Uhr, Fr 7.30 Uhr - 13.15 Uhr) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

* 2.2. Label elements

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

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

Hazard statements: -

Supplemental Hazard information (EU)

	Contains Benzenesulfonic acid, 2(or 4)-C10-14-alkyl derivs., compds. with isopropanolamine.
	May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Precautionary statements: -

2.3. Other hazards

Other adverse effects:

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

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Additional information:

The base oil / mineral oil used has a value of less than 3% DMSO, so it is not classified as a carcinogen.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) RAVENOL HVS High Viscosity Synto Oil SAE 10W-60

Revision date: 30-Nov-2018 Version: 3 Print date: 03-Dec-2018

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CL P]	Concen- tration
CAS No.: 68603-67-8 EC No.: 271-671-7	Amines, polyethylenepoly-, reaction products with benzyl chloride Aquatic Chronic 4 H413	1 - < 3 Wt %
CAS No.: 85995-83-1 EC No.: 289-091-8	Benzenesulfonic acid, 2(or 4)-C10-14-alkyl derivs., compds. with isopropanolamine Aquatic Chronic 4, Skin Sens. 1B H317-H413	0 - < 0.5 Wt %

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. Consult a doctor immediately.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately. **After eye contact:**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately.

Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

No known symptoms to date.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO2) Extinguishing powder alcohol resistant foam

Use water spray jet to protect personnel and to cool endangered containers.

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

During heating or in case of fire, toxic gases is possible.

The formation of combustible vapours is possible at temperatures above: Flash point

Hazardous combustion products:

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), During heating or in case of fire, toxic gases is possible.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

Revision date: 30-Nov-2018 Version: 3 Print date: 03-Dec-2018

5.4. Additional information

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. 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

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment. Special danger of slipping by leaking/spilling product. Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:

Remove persons to safety.

6.1.2. For emergency responders

Personal protection equipment:

Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment:

Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up:

Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Other information:

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

6.5. Additional information

Clear spills immediately. Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Personal protection equipment: see section 8 When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination.

Fire prevent measures:

No special fire protection measures are necessary.

Environmental precautions:

See section 8.

Advices on general occupational hygiene

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

	Safety Data Sheet according to F RAVENOL HVS High Viscosity Syn				-,	Page 4/9	
	Revision date: 30-Nov-2018 Versio	on: 3 Print date: 0	3-Dec-20)18		RAVENOL	
	Requirements for storage roo Suitable container/equipment n clean. Shafts and sewers must Keep/Store only in original cont	naterial: Floors sh be protected fron	nould be			and easy to	
	Hints on storage assembly: not required						
	Storage class: 10 – Combustibl Further information on stora Store in a cool dry place. Keep a	ge conditions:	inot be a	assigned to a	ny of the above sto	orage classes	
	7.3. Specific end use(s)						
	Recommendation:						
	Observe technical data sheet.						
	SECTION 8: Exposure of	controls/per	sonal	protecti	on		
	8.1. Control parameters No data available						
	8.2. Exposure controls						
	8.2.1. Appropriate engined See section 7. No additional me						
	8.2.2. Personal protection	equipment					
	Eye/face protection: During transfer: Eye glasses wit Wear eye/face protection. DIN E						
	Skin protection: Hand protection Suitable material: NBR (Nitrile r rubber) Thickness of the glove material Breakthrough time (maximum v Breakthrough times and swellin The quality of the protective glo working place concentration an For special purposes, it is recon mentioned above together with Tested protective gloves must b	: >= 0,4 mm wearing time) 480 g properties of the oves resistant to d d quantity of haz mmended to chec the supplier of the worn: EN ISO 3) min ne mater chemica ardous s k the re hese glo	rial must be als must be c substances. sistance to c	taken into consider hosen as a functior	ation. of the specific	
	Suitable protective clothing: Pro Respiratory protection: Usually no personal respirative	-	sary.				
	8.2.3. Environmental expo See section 7. No additional me		<i> </i> .				
	3.3. Additional information Mineral oil mist limits: OSHA PEL - value 5 mg / m³, ACGIH STEL - value of 10 mg / m³						
	SECTION 9: Physical ar	nd chemical	prop	erties			
•	9.1. Information on basic	physical and	chemi	ical prope	rties		
Appearance Physical state: Liquid Colour: brown Odour: characteristic							
	Safety relevant basis data	l			-		
	parameter	and as the tit	at °C	Method	Remark		
	рН	not applicable					
	Malting paint	not determediated					
	Melting point	not determined					
	Melting point Freezing point Initial boiling point and boiling	not determined not determined not applicable					

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) RAVENOL HVS High Viscosity Synto Oil SAE 10W-60

Page 5/9

RAVENOL

Revision date: 30-Nov-2018 Version: 3 Print date: 03-Dec-2018

parameter		at °C	Method	Remark
Decomposition temperature (°C):	not determined			
Flash point	248 °C			
Evaporation rate	not determined			
Ignition temperature in °C	not determined			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Relative density	853 kg/m ³	20 °C		
Bulk density	not determined			
Water solubility	The study does not need to be conducted beca use the substanc e is known to be insoluble in wat er.			
Partition coefficient: n-octanol/ water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	155.6 mm²/s	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions. Risk of explosion if heated under confinement.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

To avoid thermal decomposition do not overheat.

10.5. Incompatible materials

Materials to avoid: Acid, Oxidising agent, Reducing agent

10.6. Hazardous decomposition products

Hazardous combustion products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

SECTION 11: Toxicological information

* 11.1. Information on toxicological effects

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

No irritant effect. Frequently or prolonged contact with skin may cause dermal irritation.

Serious eye damage/irritation:

No irritant effect.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Carcinogenicity:

No indication of human carcinogenicity.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)Page 6/9RAVENOL HVS High Viscosity Synto Oil SAE 10W-60Page 6/9
Revision date: 30-Nov-2018 Version: 3 Print date: 03-Dec-2018
Reproductive toxicity:
No indications of human reproductive toxicity exist. STOT-single exposure:
Based on available data, the classification criteria are not met.
STOT-repeated exposure:
Based on available data, the classification criteria are not met.
Aspiration hazard: For viscosity data, see section 9.
SECTION 12: Ecological information
12.1. Toxicity
Assessment/classification:
The substance/mixture does not fullfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.
Additional ecotoxicological information: Do not allow uncontrolled discharge of product into the environment.
12.2. Persistence and degradability
Biodegradation: Not readily biodegradable (according to OECD criteria).
12.3. Bioaccumulative potential
Accumulation / Evaluation: The product has not been tested.
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. Other adverse effects No information available.
SECTION 13: Disposal considerations
13.1. Waste treatment methods Dispose of waste according to applicable legislation.
Waste treatment options
Appropriate disposal / Product: Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

13.2. Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.

not relevant

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

RAVENOL

Revision date: 30-Nov-2018 Version: 3 Print date: 03-Dec-2018

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not relevant

*

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

Safety data sheet available for professional user on request.

15.1.2. National regulations

[DE] National regulations

Störfallverordnung

Remark:

This product is not classified according to StörfallVO.

Technische Anleitung Luft (TA-Luft)

Remark:

To follow: 5.2.5.

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Source:

Self-classification (mixture; calculation rule). Identification number 436

Technische Regeln für Gefahrstoffe

TRGS 510 TRGS 500

Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Informationen (BGI) 868 Berufsgenossenschaftliche Regeln (BGR) 189, 190, 192, 195

Other regulations, restrictions and prohibition regulations Altöl-Verordnung (AltölV)

[DK] National regulations

Other regulations, restrictions and prohibition regulations

Lister over stoffer og processer, der anses for at være kræftfremkaldende

[FR] National regulations

Other regulations, restrictions and prohibition regulations

Tableaux de maladies professionnelles Nomenclature des installations classées pour la protection de l'environnement

[NL] National regulations

Other regulations, restrictions and prohibition regulations

Lijst van kankerverwekkende, mutagene, en voor de voortplanting giftige stoffen SZW Algemeene beoordelingsmethodiek Water (ABM) Nederlandse emissierichtlijn (NeR) Revision date: 30-Nov-2018 Version: 3 Print date: 03-Dec-2018

Other regulations, restrictions and prohibition regulations

Mengenschwelle (Schweiz - StFV) Gefahrencode Brandverhütung, BVD (Schweiz)

15.2. Chemical Safety Assessment

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

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

- 1.4. Emergency telephone number
- 2.2. Label elements 3.2. Mixtures
- 8.2. Exposure controls
- 9.1. Information on basic physical and chemical properties
- 11.1. Information on toxicological effects
- 12.1. Toxicity
- 12.5. Results of PBT and vPvB assessment
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- 16.1. Indication of changes
- 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

16.2. Abbreviations and acronyms

See overview table at www.euphrac.eu

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3. Key literature references and sources for data

67/548/EEC - Dangerous Substances Directive

1999/45/EEC - Dangerous Preparations Directive

EC 1907/2006 - REACH Regulation

1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006

Regulation (EC) No 1907/2006 (REACH), Annex II

European Chemicals Agency (ECHA), C & L classification and labeling inventory

European Chemicals Agency (ECHA), ECHA CHEM Registered substances

OECD The Global Portal to Information on Chemical Substances (ChemPortal)

Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances

Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

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

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard	statements	

H317	May cause an allergic skin reaction.
H413	May cause long lasting harmful effects to aquatic life.

16.6. Training advice

No data available

*



Revision date: 30-Nov-2018 Version: 3 Print date: 03-Dec-2018	

16.7. Additional information

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

* Data changed compared with the previous version