Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) RAVENOL MGS SAE 15W-40 Page 1/10

RAVENOL

Revision date: 11 Aug 2021 Version: 5 Print date: 11 Aug 2021

#### 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 MGS SAE 15W-40

# Article No.:

1133100

# **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

Jöllenbecker Str. 2 33824 Werther Germany

**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]

Hazard statements: -

#### Supplemental hazard information

	suppremental maile	
E		Contains Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., Calcium salts. May produce an allergic reaction.
E	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.

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## **SECTION 3: Composition / information on ingredients**

## 3.2. Mixtures

\*

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen- tration
EC No.: 953-650-0	Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated Repr. 2 (H361d), Skin Sens. 1B (H317) Warning	0 - < 1 weight-%
CAS No.: 722503-68-6 EC No.: 682-816-2	Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., Calcium salts Aquatic Chronic 4 (H413), Skin Sens. 1B (H317)	0 - < 0.5 weight-%

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 but breathing normally, 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 eve 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.

#### Following 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.

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#### 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.

#### **Protective equipment:**

Personal protection equipment: see section 8

#### **Emergency procedures:**

Eliminate all ignition sources if safe to do so. Remove persons to safety. Provide adequate ventilation.

#### **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 (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:**

Shafts and sewers must be protected from entry of the product.

#### 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.

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<b>Requirements for storage rooms and vessels:</b> Suitable container/equipment material: Floors should be impervious, resistant to liqu clean. Shafts and sewers must be protected from entry of the product. Keep/Store only in original container.	ids and easy to
Hints on storage assembly: not required	
Storage class (TRGS 510, Germany): 10 – Combustible liquids that cannot be assi above storage classes	gned to any of the
Further information on storage conditions: Store in a cool dry place. Keep away from heat.	
7.3. Specific end use(s)	
Recommendation: Observe technical data sheet.	
SECTION 8: Exposure controls/personal protection	
8.1. Control parameters	
8.1.1. Occupational exposure limit values No data available	
8.1.2. Biological limit values No data available	
8.1.3. DNEL-/PNEC-values	

Substance name	DNEL value	<ol> <li>DNEL type</li> <li>Exposure route</li> </ol>
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6 EC No.: 272-238-5	2.93 mg/m <sup>3</sup>	<ol> <li>DNEL worker</li> <li>Long-term – inhalation, systemic effects</li> </ol>
Substance name	PNEC Value	① PNEC type
Distillates (petroleum), solvent-refined heavy pa raffinic CAS No.: 64741-88-4 EC No.: 265-090-8	9.33 mg/kg	<ol> <li>PNEC secondary poisoning</li> </ol>
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6 EC No.: 272-238-5	4 μg/l	① PNEC aquatic, freshwater
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts CAS No.: 68784-31-6 EC No.: 272-238-5	4.6 μg/l	① PNEC aquatic, marine water

# **8.2. Exposure controls**

# 8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

# 8.2.2. Personal protection equipment



#### Eye/face protection:

During transfer: Eye glasses with side protection Wear eye/face protection. EN 166

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kin protection:					
Hand protection					
Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene					
rubber)					
Thickness of the glove materia	al: >= 0,4 mm				
Breakthrough time: 480 min					
Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific					
				iosen as a fur	iction of the specifi
working place concentration a For special purposes, it is reco				amicals of th	a protoctiva alovas
mentioned above together wit					e protective gloves
Tested protective gloves must	he worn: EN ISO 3	71	ves.		
Suitable protective clothing: P		/4			
Respiratory protection:	forcerive clothing				
Usually no personal respirative	o protoction pocos	carv			
	•	sai y.			
8.2.3. Environmental exp					
See section 7. No additional m	neasures necessary	/.			
3.3. Additional informati	ion				
Mineral oil mist limits:					
OSHA PEL - value 5 mg / m <sup>3</sup> , A	CGIH STEL - value	of 10 m	a / m³ (bei m	ineralischen (	Ölen)
			<b>y</b> , (		
SECTION 9: Physical a	and chemical	prope	erties		
.1. Information on basi		- la			
Appearance Physical state: Liquid Odour: characteristic		Co	<b>lour:</b> tawny		
Physical state: Liquid Odour: characteristic	a	Co	<b>lour:</b> tawny		
Physical state: Liquid		Co at °C	lour: tawny Method	Remark	
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Physical state: Liquid Odour: characteristic Safety relevant basis dat parameter pH Melting point	<i>not applicable</i> <i>not determined</i>			Remark	
Physical state: Liquid Odour: characteristic Safety relevant basis dat parameter pH Melting point Freezing point	not applicable not determined not determined			Remark	
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## **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 hazard classes as defined in Regulation (EC) No 1272/2008 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.

## Serious eye damage/irritation:

No irritant effect.

#### Respiratory or skin sensitisation:

Contains Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., Calcium salts. May produce an allergic reaction.

#### Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

## Carcinogenicity:

No indication of human carcinogenicity.

#### **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:

Observe risk of aspiration if vomiting occurs.

#### For viscosity data, see section 9.

## Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

## \* 11.2. Information on other hazards

#### Endocrine disrupting properties:

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

# **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.

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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)						
2.3. Bioaccumulative potential artition coefficient: n-octanol/water:						
not applicable	-octanol/water:					
Accumulation / Evaluat						
The product has not bee						
12.4. Mobility in soi The product has not bee						
•						
Substance name	Гand vPvB assessme	Results of PBT and vPvB	assassment			
Alkyl (C18-C28) toluenesul	fonic acid, calcium salts,					
borated EC No.: 953-650-0						
	hyl-, mono-C20-24-branched	This substance does not me REACH, Annex XIII.	et the PBT/vPvB criteria of			
The substances in the m	nixture do not meet the PB <sup>-</sup>	C/VPVB criteria according to	REACH, annex XIII.			
This product does not co target organisms as no o	rupting properties ontain a substance that has components meets the crit	s endocrine disrupting prop				
This product does not contarget organisms as no of <b>12.7. Other adverse</b> No data available.	rupting properties ontain a substance that has components meets the crit e effects	s endocrine disrupting prop eria.				
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This product does not co target organisms as no o <b>12.7. Other adverse</b> No data available. <b>SECTION 13: Disp</b> <b>13.1. Waste treatme</b> Dispose of waste accord	rupting properties ontain a substance that has components meets the crit e effects osal consideration ent methods ling to applicable legislatio	s endocrine disrupting properia.				
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This product does not co target organisms as no o 12.7. Other adverse No data available. SECTION 13: Disp 13.1. Waste treatmen Dispose of waste accord Waste treatment op Appropriate disposal / Dispose of waste accord Appropriate disposal / Non-contaminated pack Other disposal recomm Consult the appropriate 13.2. Additional infe	rupting properties ontain a substance that has components meets the crit e effects oosal consideration ent methods ling to applicable legislatio tions Product: ling to applicable legislatio Package: ages may be recycled. mendations: local waste disposal exper	s endocrine disrupting propreria.  S n. n. t about waste disposal.	erties with respect to no			
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Land transport (ADR/	Inland waterway	Sea transport (IMDG)	Air transport (ICAO-
RID)	craft (ADN)	• • •	TI / IATA-DGR)
			1

## 14.3. Transport hazard class(es)

not relevant

## 14.4. Packing group

not relevant

## 14.5. Environmental hazards

not relevant

## 14.6. Special precautions for user

not relevant

\*

## **14.7. Maritime transport in bulk according to IMO instruments** Not applicable.

# **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):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category. Safety data sheet available on request.

## 15.1.2. National regulations

## [DE] National regulations

## Störfallverordnung

for substances contained in the product:

This product is not assigned to a hazard category.

for substances possibly developing during an incident: This product is not assigned to a hazard category.

## **Technische Anleitung Luft (TA-Luft)**

**Remark:** 

To follow: 5.2.5

## Water hazard class

## WGK:

2 - deutlich wassergefährdend

## Source:

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

## Technische Regeln für Gefahrstoffe

TRGS 510 TRGS 500

## Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868 Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195

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

## [DK] National regulations

# Other regulations, restrictions and prohibition regulations

Dänemark: Bekendtgørelse af lov om arbejdsmiljø: Beskæftigelsesministeriets lovbekendtgørelse nr. 1072 af 7. september 2010

Lister over stoffer og processer, der anses for at væere kraeftfremkaldende

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## [FR] National regulations

## Other regulations, restrictions and prohibition regulations

Frankreich: Tableaux de maladies professionelles

Nomenclature des installations classées pour la protection de l'environnement Articles L. 4523-1 à L. 4523-17, L. 4611-1 à L. 4614-16, R. 4523-1 à R. 4523-17 et R. 4612-1 à R. 4615-21 du Code du travail

## [NL] National regulations

## Other regulations, restrictions and prohibition regulations

Niederlande: Lijst vank kankerverwekkende, mutagene en voor de voortplanting giftige stoffen (SZW) Algemeene beoordelingsmethodiek Water (ABM)

Nederlandse emissierichtlijn (NeR)

NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Borstvoeding

NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Vruchtbaarheid

NIET-Limitatieve lijst an voor de voortplanting giftige stoffen - Ontwikkeling

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

Wet van 18 maart 1999, houdende bepalingen ter verbetering van de arbeidsomstandigheden (Arbeidsomstandighedenwet)

Wet op de ondernemingsraden 1971

## [CH] National regulations

## 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

2.2.	Label elements
3.2.	Mixtures
6.1.	Personal precautions, protective equipment and emergency procedures
9.1.	Information on basic physical and chemical properties
9.2.	Other information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
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 substances 

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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.	
H361d	Suspected of damaging the unborn child.	
H413	May cause long lasting harmful effects to aquatic life.	

#### 16.6. Training advice

No data available

\*

## 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