



RAVENOL SCOOTER 2-Takt Teilsynth.



ART.-NR. 1152150

1 L | 1152150-001
4 L | 1152150-004
10 L | 1152150-010
20 L | 1152150-020
20 L | 1152150-B20
1000 L | 1152150-700

SPEZIFIKATIONEN API TC IISO-L-EGC
HERSTELLUNGSART TEILSYNTHETISCH
FREIGABE JASO FC (049RAV150)

EMPFEHLUNGEN APRILIA | HONDA | KYMCO | PEUGEOT | PIAGGIO |
SUZUKI | VESPA | YAMAHA

RAVENOL SCOOTER 2-Takt Teilsynth. ist ein teilsynthetisches hochwertiges Zweitaktöl mit speziellen Estern und Polyisobutylen (PIB) für luft- und wassergekühlte 2-Takt-Motoren. Geeignet für Getrenntschmierungs- und Selbstmischungssysteme.

RAVENOL SCOOTER 2-Takt Teilsynth. basiert auf mineralischen und synthetischen Grundölen und ist additiviert mit außerordentlich wirksamen Zweitakt-Additiven.

Anwendungshinweis

RAVENOL SCOOTER 2-Takt Teilsynth. ist ein selbstmischendes Zweitaktöl und für Gemisch- und Getrenntschmierung geeignet.

RAVENOL SCOOTER 2-Takt Teilsynth. ist besonders für die Schmierung luftgekühlter Zweitakt-Otto-Motoren mit sehr hohen Drehzahlen und/oder schwerer bis schwerster Belastung konzipiert.

RAVENOL SCOOTER 2-Takt Teilsynth. ist auch zur Schmierung von Zweitakt Otto-Motoren mit Wasserkühlung (z.B. in Motorrädern) geeignet.

RAVENOL SCOOTER 2-Takt Teilsynth. kann grundsätzlich bis 1:75 mit Normalbenzin gemischt eingesetzt werden. Vorschriften der Motorenhersteller beachten.

Eigenschaften

RAVENOL SCOOTER 2-Takt Teilsynth. bietet:

- eine einwandfreie Schmierung aller Motorenteile
- eine starke Reinigungswirkung, die Verbrennungsräume sowie Ein- und Auslasskanäle weitestgehend von Verbrennungsrückständen und Ablagerungen freihält
- saubere Zündkerzen sorgen für eine optimale Leistung der Motoren
- einen sehr hohen Verschleiß- und Korrosionsschutz
- geringe Abgasbelastung durch gute Verbrennung



Eigenschaften	Einheit	Daten	Prüfung nach
Dichte bei 20°C	kg/m ³	863,0	EN ISO 12185
Farbe		rot	visuell
Viskosität bei 100°C	mm ² /s	9,7	DIN 51 562
Viskosität bei 40°C	mm ² /s	68,4	DIN 51 562
Viskositätsindex VI		122	DIN ISO 2909
Pourpoint	°C	-36	DIN ISO 3016
Flammpunkt (COC)	°C	180	DIN ISO 2592
Sulfatasche	%m	0,09	DIN 51 575

Alle Angaben entsprechen nach bestem Wissen dem derzeitigen Stand der Erkenntnisse und unserer Entwicklung. Änderungen bleiben vorbehalten. Alle Bezugnahme auf DIN-Normen dienen nur der Warenbeschreibung und stellen keine Garantie dar. Bei vorliegenden Problemfällen technische Beratung anfordern.

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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 SCOOTER 2-Takt Teilsynth.

Article No.:

1152150

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

D

Telephone: +49 5203 9719 0

Telefax: +49 5203 9719 48

E-mail: kontakt@ravenol.de

Website: www.ravenol.de

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

1.4. Emergency telephone number

Abt. 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 (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]:

This 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)

EUH208

Contains Calcium, Aqua 1,2-Dihydroxy-9,10-anthracendion Oxo AluminiumKomplexe. May produce an allergic reaction.

Precautionary statements: -

2.3. Other hazards

No data available



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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]	Concentration
CAS No.: 64741-76-0 EC No.: 265-077-7 REACH No.: 01-2119486951-26	Distillates (petroleum), heavy hydrocracked Asp. Tox. 1 Danger H304	10 - 20 Wt %
CAS No.: 94094-89-0 EC No.: 302-191-9	Calcium, aqua 1,2-dihydroxy-9,10-anthracenedione oxo aluminum complexes Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1 H315-H317-H319	0 - < 1 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.

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:

High power 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

When hot, product develops flammable vapours.

Hazardous combustion products:

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



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5.3. Advice for firefighters

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

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

Protective equipment:

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

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

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:

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Avoid oil mist. 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. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Do not put any product-impregnated cleaning rags into your trouser pockets.



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7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

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

Requirements for storage rooms and vessels:

Suitable container/equipment material: Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product.

Keep/Store only in original container.

Hints on storage assembly:

not required

Storage class: 10 - Combustible liquids that cannot be assigned to any of the above storage classes

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

No data available

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

Skin protection:

Hand protection

Suitable material: NBR (Nitrile rubber), PVC (Polyvinyl chloride)

Thickness of the glove material: $\geq 0,4$ mm

Breakthrough time (maximum wearing 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 working place concentration and quantity of hazardous substances.

Suitable protective clothing: Protective clothing:

Respiratory protection:

Usually no personal respirative protection necessary.

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

8.3. Additional information

Mineral oil mist limits:

OSHA PEL - value $5 \text{ mg} / \text{m}^3$, ACGIH STEL - value of $10 \text{ mg} / \text{m}^3$

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid

Colour: red

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not applicable</i>			
Melting point/freezing point	<i>not applicable</i>			
Freezing point	<i>No data available</i>			
Initial boiling point and boiling range	<i>No data available</i>			



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parameter		at °C	Method	Remark
Decomposition temperature (°C):	No data available			
Flash point	> 100 °C			
Evaporation rate	No data available			
Ignition temperature in °C	No data available			
Upper/lower flammability or explosive limits	No data available			
Vapour pressure	No data available			
Vapour density	No data available			
Density	865 kg/m ³	20 °C		
Bulk density	not applicable			
Water solubility (g/L)	insoluble			
Partition coefficient: n-octanol/water	No data available			
Dynamic viscosity	not applicable			
Kinematic viscosity	60 mm ² /s	40 °C		
Pourpoint	-21 °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 (NO_x)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
64741-76-0	Distillates (petroleum), heavy hydrocracked	LD₅₀ oral: 5,000 mg/kg (Rat) LD₅₀ dermal: 2,000 mg/kg (Rab) LC₅₀ inhalative: 5,000 mg/m ³ (Rat)

Acute oral toxicity:

No data available

Acute dermal toxicity:

No data available

Acute inhalation toxicity:

No data available

Skin corrosion/irritation:

There are no data available on the preparation/mixture itself.

Eye damage/irritation:

There are no data available on the preparation/mixture itself.



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Respiratory or skin sensitisation:

Contains epoxy constituents. 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.

Aspiration hazard:

There are no data available on the preparation/mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
64741-76-0	Distillates (petroleum), heavy hydrocracked	LC₅₀: 100 mg/l 4 d NOEC: 100 mg/l -∞ h EC₅₀: 10,000 mg/l 2 d NOEC: 100 mg/l -∞ h NOEC: 100 mg/l -∞ h IC₅₀: 100 mg/l 3 d

Aquatic toxicity:

No data available

Sediment toxicity:

No data available

Terrestrial toxicity:

No data available

Effects in sewage plants:

No data available

Assessment/classification:

There are no data available on the mixture itself.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
64741-76-0	Distillates (petroleum), heavy hydrocracked	No	

Abiotic degradation:

No data available

Biodegradation:

Poorly biodegradable.

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OC}	Bioconcentration factor (BCF)
64741-76-0	Distillates (petroleum), heavy hydrocracked	6	

Bioconcentration factor (BCF):

No data available

Partition coefficient: n-octanol/water:

No data available

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No data available



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12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
64741-76-0	Distillates (petroleum), heavy hydrocracked	—
94094-89-0	Calcium, aqua 1,2-dihydroxy-9,10-anthracenedione oxo aluminum complexes	—

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

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

Remark:

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

Waste code packaging:

Remark:

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

No data available

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

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



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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

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Description:

hazardous to water (WGK 2)

Technische Regeln für Gefahrstoffe

TRGS 510

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

Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Informationen (BGI) 868

Berufsgenossenschaftliche Regeln (BGR) 189, 190, 192, 195

Other regulations, restrictions and prohibition regulations

Altöl-Verordnung (AltöIV)

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

sections 1-16

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)



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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]:

This 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	
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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.