



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

08/01/2018

FDS :864-193790-080118

Page 1 sur 19

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

- Product name: **KENNOL DCT FLUID**

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

- Commercial use: Automatic transmission oil (for more details, please report back to the technical manual)

1.3. Details of the supplier of the Safety Data Sheet

- Fournisseur **ACCOR LUBRIFIANTS SA**

Adresse : 8 Rue du Mans - BP 30406 - 49304 CHOLET CEDEX

Téléphone : 02.41.75.26.70

Télécopie : 02.41.62.67.02

Contact e-mail : emilie.auribault@accor-lubrifiants.com

1.4. Emergency telephone number

In France, the valid emergency number is the ORFILA (INRS) number: + 33 (0)1 45 42 59 59. This telephone number gives contacts of all French poison centers ("centres anti-poison et de toxicovigilance"). These information centers provide you with free medical advice (except the cost of call), 24 hours a day, 7 days a week. For the information related to other countries, see the web page dedicated to national helpdesks of the ECHA website (European Chemicals Agency) that lists all the information by country:

<http://echa.europa.eu/web/guest/support/helpdesks/national-helpdesks/list-of-national-helpdesks>

SECTION 2 - HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification CE 1272/2008 (CLP)

Not classified



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

08/01/2018

FDS :864-193790-080118

Page 2 sur 19

2.2. Label elements

Label Conforms to Norm (CE) N° 1272/2008 (CLP):

Hazard pictogram(s):

None

Signal word(s):

None

Hazard statement(s):

None

Supplemental Hazard information:

EUH208 – contains C14-18 alpha-olefin epoxide, reaction products with boric acid and 2-Ethylhexyl methacrylate. May produce an allergic reaction.

Precautionary statement(s) – Prevention

P102 - Keep out of reach of children.

Precautionary statement(s) - Intervention

None

Precautionary advice- Storage

None

Precautionary advice - Elimination

P501 - Dispose of contents/container to hazardous or special waste collection point.

2.3. Other hazards

Flammable and combustible product if heated.

The oil mist may irritate eyes and breathing apparatus.

Prolonged and frequent contact may dry and irritate the skin and cause a rash.

The used oil can contain dangerous impurities.

Possibility of soil and groundwater contamination.



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

FDS :864-193790-080118

08/01/2018

Page 3 sur 19

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

- Chemical nature: Product formulated from base oils and additives

- Dangerous components:

| COMPONENTS | Percentage (in weight) | CLP Classification (EC) No 1272/2008 | NUMBERS |
|---|---------------------------|--|-------------------------------|
| | | | CE CAS Registration |
| Petroleum base oil | < 90 % | Asp. Tox. 1 ; H304 | Mixture (*) |
| Isooctadecanoic acid, reaction products with tetraethylenepentamine | < 1.5 % | Skin Corr. 2; H315 Eye Dam. 2; H319 | 272-225-4 01-2119960832-33 |
| Reaction products of Benzeneamine, N-phenyl- with nonene (branched) | < 1.5 % | Aquatic Chronic 4; H413 | 253-249-4 01-2119488911-28 |
| 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol | < 1.5 % | Aquatic Chronic 3; H412 | 293-927-7 01-2119976351-35 |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich | < 1 % | Aquatic Chronic 2; H411 | 800-172-4 01-2119969520-35 |
| C14-18 alpha-olefin epoxide, reaction products with boric acid | < 0.3 % | Skin Sens. 1B; H317 | 939-580-3 01-2119976364-28 |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | < 0.3 % | Eye Dam. 1; H318 Skin Corr. 1C; H314 Aquatic Acute 1; H400 (M=10) Aquatic Chronic 2; H411 (M=1) Acute Tox. 4; H302 | 620-540-6 01-2119510877-33 |
| 2-Ethylhexyl methacrylate | < 0.3 % | STOT SE 3; H335 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 3; H412 Skin Sens. 1B; H317 | 211-708-6 01-2119490166-35 |

(*) Mixture: contains one or several EINECS numbers as follows: 265-090-8, 265-091-3, 265-096-0, 265-097-6, 265-098-1, 265-101-6, 265-155-0, 265-156-6, 265-157-1, 265-158-7, 265-159-2, 265-160-8, 265-161-3, 265-166-0, 265-169-7, 265-176-5, 276-735-8, 276-38-4, 276-736-3, 276-737-9, 276-738-4, 278-012-2, 309-878-2.



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

FDS :864-193790-080118

08/01/2018

Page 4 sur 19

This product is a petroleum product. DMSO extract < 3 % in weight (IP 346)

The whole of the text of risk phrases and hazard statements of this section 3 appears in Section 16.

SECTION 4 - FIRST AID MEASURES

4.1. Description of first aid measures

If feeling unwell seriously or persistently, immediately seek medical attention

Inhalation:

Move the subject away from the polluted area.

Take affected person into fresh air and keep quiet.

In case of unconsciousness place patient stably in side position for transportation.

In the event of faintness, consult a doctor.

Skin contact:

Wash the skin with soap and water.

In case of persistent irritation of the skin, consult a doctor.

Wash contaminated clothing before reuse.

Eye contact:

Rinse out with plenty of water for at least 30 minutes with the eyelid held wide open. Consult an ophthalmologist if the irritation persists.

Ingestion:

DO NOT INDUCE VOMITING: seek medical or poison center advice immediately.

Move the person who is vomiting from his back onto his side.

Self-protection of the first aider:

When providing first aid, protect yourself against the exposure to chemicals or blood-borne diseases wearing gloves, masks as well as eye protection equipment. After performing first aid, wash the exposed skin with soap and water.



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

FDS :864-193790-080118

08/01/2018

Page 5 sur 19

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

See section 11.

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

Note to physician: treat symptomatically.

SECTION 5 - FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: CO2, dry powder, resistant foam; the water can be used to cool and protect product containers exposed.

Unsuitable extinguishing media for safety reason: full water jet.

5.2. Special hazards arising from the substance or mixture

For more information, see section 10.

5.3. Advice for firefighters

It is recommended to wear self-contained breathing apparatus. Water can splash close elements. Use water to cool exposed containers.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal protective equipment must be worn. Avoid all contact with skin. If the spill occurs in a closed environment or other area with poor ventilation, ventilate before entering the area.

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case product reaches water or sewage system.
Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Soak up to recycle and/or dispose of. The remaining liquid can be absorbed with inert material.

6.4. Reference to other sections

To obtain information about safe handling, please see chapter 7.



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

FDS :864-193790-080118

08/01/2018

Page 6 sur 19

To obtain information about personal protective equipment, please see chapter 8.

To obtain information about elimination, please see chapter 13.

SECTION 7 - HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not eat, drink or smoke when using this product.

Keep containers closed when unused. Do not discharge into drains or the environment, dispose of this product to an officially approved waste collection center. Use appropriate containment to avoid environmental contamination. Avoid skin contact. Wash thoroughly after handling. Wash contaminated clothing before reuse. Empty containers retain product residue that may present product hazards. Dispose of packaging and containers according to local, regional, national and international regulations.

Pumping temperature

Ambient

Maximal handling temperature

70 °C, 158 °F

Maximal loading temperature

Not defined.

7.2. Conditions for safe storage, including any incompatibilities

Take precautions to avoid all release in the environment. To know incompatible materials, see section 10.

Maximal preservation temperature

45 °C, 113 °F

7.3. Specific end use(s)

No other important information available.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values:

Where conditions are created for the formation of mists, check the PEL of 5 mg by cubic meter of OSHA and TWA of 5mg by cubic meter of ACGIH to control possible oil mists.

Recommended control procedures: this product contains ingredients presenting exposure limits, the working atmosphere or living organisms can be necessary to determine the efficiency of ventilation or other control



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

FDS :864-193790-080118

08/01/2018

Page 7 sur 19

measures and/or the necessity to use breathing apparatus. It is worth to mention to the European EN 689 norm referring to methods to evaluate the exposure by inhalation to chemical agents and to documents of general national policy referring to methods to determine hazardous substances.

8.2. Exposure controls

The appropriate control measures for a particular workplace depend on the way the product is used and on potential exposure.

Personal protective equipment:

The product must be handled in closed containers and equipment, in which case mechanical local ventilation should be sufficient. Local exhaust ventilation should be used in places where dusts, mists, steam or gas may leak in the local atmosphere.

Eye/face protection

Goggles.

Skin protection

Nitrile.

Long sleeve shirts are recommended. Use a chemical protection apron if contact with this product can happen. When working with the product heated, use an insulated apron or an insulated chemical protection garment. Wash the contaminated clothing before reuse.

Breathing protection

Use a respirator combined with an organic vapor cartridge as well as a very efficient filter if the exposure limit recommended is exceeded.

Use an insulated breathing apparatus to penetrate in confined space and other spaces poorly ventilated and for decontamination zones where big quantities have been spread.

Hygiene measures

Wash yourself thoroughly after handling this product.

Environmental exposure controls

For more details, see section 6

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance

Aspect: Liquid

Density at 20°C (g/cm³): 0,856

Colour: Ambre

Viscosity at 40°C (mm²/s): 34,9

Smell: oil feature



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

FDS :864-193790-080118

08/01/2018

Page 8 sur 19

Flash point (closed beaker) (°C): > 180°C

Flow point (°C): < -40

Ignition temperature: Not identified.

Steam pressure at 20°C: Not identified.

Partition coefficient (n-octanol/water): Not identified.

Explosive properties: This product is not known to be explosive.

Oxidizing properties: This product is a non-oxidizing substance.

9.2. Other information

No other important information available.

SECTION 10 - STABILITY AND REACTIVITY

10.1. Reactivity

Carefully consider all information provided in sections 10.2 to 10.6.

10.2. Chemical stability

This product is normally stable with low temperatures and is not decomposed by water.

10.3. Possibility of hazardous reactions

Dangerous reactions: none when used normally.

Dangerous properties: none when used normally.

10.4. Conditions to avoid

High temperature. Excessive heat.

10.5. Incompatible materials

Strong acids. Oxidizing agents.

10.6. Hazardous decomposition products

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products with incomplete combustion.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information referred to ingredients.

Petroleum base oil:



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

08/01/2018

FDS :864-193790-080118

Page 9 sur 19

Acute toxicity

Contains base oil with acute toxicity of
DL50/oral/rat = > 5000 mg/kg (OECD 401).
DL50/cutaneous/rabbit = > 2000 mg/kg (OECD 402).
CL50/inhalation/4h/rat = > 5.53 mg/L (OECD 403).

Corrosion / skin irritation

Not classified (OECD 404, 405). The mist of mineral oil may irritate eyes and breathing apparatus.
A prolonged or repeated skin contact may irritate or produce dermatitis.

Sensitization

Non-sensitizer for skin. (OECD 406)

Subacute, subchronic Toxicity on the long term

Is not classified as carcinogenic for human. (OECD 451, 453).
Not toxic for reproduction (OECD 421).
Damage to fetus not classified (OECD 414).
Genotoxicity tests (in vitro and in vivo) have been negative. (OECD 471, 473, 474, 476)

Specific toxicity for some target organs – unique exposure

No known effect.

Specific toxicity for some target organs – repeated exposure

No known effect. (OECD 408, 410, 411, 412, 453)

Aspiration hazard

Aspiration into the lungs may cause fatal chemical pneumonia.

Isooctadecanoic acid, reaction products with tetraethylenepentamine

Cutaneous sensitization

Classification: is not a cutaneous sensitizer. (Measured) Is not a cutaneous sensitizer.

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol

Cutaneous sensitization

Classification: is not a cutaneous sensitizer. (Literature) Is not a cutaneous sensitizer.

Mutagenicity of Germinal Cells:

This product has not shown mutagenic potential or genotoxic during laboratory tests.



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

FDS :864-193790-080118

08/01/2018

Page 10 sur 19

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich

Cutaneous sensitization

Classification: is not a cutaneous sensitizer. (Measured) Is not a cutaneous sensitizer.

C14-18 alpha-olefin epoxide, reaction products with boric acid

Cutaneous sensitization

Classification: Skin sensitizer (Measured) May cause sensitization by cutaneous contact.

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Cutaneous sensitization

Classification: Not a skin sensitizer. (Read across method)

Specific target organ toxicity- Unique exposure:

If the product is in the form of mist or if vapors are produced by heating, exposure may cause irritation of the mucous membranes and upper respiratory tract.

Mutagenicity of Germinal Cells:

In vitro mutagenesis tests were negative

Reproductive toxicity:

Not ranked based on available data. Based on the available data, this product should not be classified as dangerous for reproduction.

2-Ethylhexyl methacrylate

Cutaneous sensitization

Classification: Skin sensitizer (Literature)

Specific target organ toxicity- Unique exposure:

Respiratory tract irritation.

Mutagenicity of Germinal Cells:

This product has not shown mutagenic potential or genotoxic during laboratory tests

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Mutagenicity of Germinal Cells:

This product has not shown mutagenic potential or genotoxic during laboratory tests

SECTION 12 - ECOLOGICAL INFORMATION

12.1. Toxicity

This mixture has not been tested, application of the conventional method from components.



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

08/01/2018

FDS :864-193790-080118

Page 11 sur 19

As for the mixture:

Acute toxicity (short term) – Fish: no available data
Acute toxicity (short term) – Shellfish: no available data
Acute toxicity (short term) – Seaweed/aquatic plants: no available data
Acute toxicity (short term) – Other organisms: no available data
Chronic toxicity (long term) – Fish: no available data
Chronic toxicity (long term) – Shellfish: no available data
Chronic toxicity (long term) – Seaweed/aquatic plants: no available data
Chronic toxicity (long term) – Other organisms: no available data

As for substances that compose the mixture:

Petroleum base oil:

Very low toxicity:

Acute toxicity for the aquatic environment:

fish: LL50/96h > 100 mg/L; NOEL/96h >= 100 mg/L (OECD 203)

shellfish: EL50/24-48h; NOEL/48-96h; LL50/24-96h > 10 000 mg/L (OECD 202)

seaweed: NOEL/72h >= 100 mg/L (OECD 201)

Chronic toxicity for the aquatic environment: shellfish: NOEL/21d = 10 mg/L (OECD 211)

Isooctadecanoic acid, reaction products with tetraethylenepentamine

fish

LC 50 (Pimephales promelas, 4 Days): > 1 000 mg/l

Aquatic Invertebrates

CE50 (Water flea, 2 DY): > 1 000 mg/l

CE50 (Water flea, 21 DY): > 32 mg/l

NOEC (Water flea, 21 DY): 32 mg/l

Toxicity for aquatic plants

CE50 (Green algae, 4 days): 94 mg/l

NOEC (Green algae, 4 days): 23 mg/l

Toxicity for soil-dwelling organisms

No data available

Toxicity for sediment-dwelling organisms

No data available

Toxicity for land plants

No data available

Toxicity for land plants

No data available

Toxicity for microorganisms

CE50 (Mud, 0,1 Days): > 1 000 mg/l



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

08/01/2018

FDS :864-193790-080118

Page 12 sur 19

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Fish

LC 50 (Zebra fish, 4 DY): > 100 mg/l

Aquatic invertebrates

CE50 (Water flea, 2 DY): > 100 mg/l

Toxicity for aquatic plants

CE50 (Green algae, 3 DY): 600 mg/l

Toxicity for soil-dwelling organisms

No data available

Toxicity for sediment-dwelling organisms

No data available

Toxicity for land plants

No data available

Toxicity for land organisms

No data available

Toxicity for microorganisms

CE50 (Mud, 0,1 DY): > 1 000 mg/l

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol

Poisson

LC 50 (Pimephales promelas, 4 DY): > 1 000 mg/l

NOEC (Pimephales promelas, 4 DY): 1 000 mg/l

Aquatic invertebrates

CE50 (Water flea, 2 DY): 41 mg/l

NOEC (Water flea, 2 DY): 32 mg/l

Toxicity for aquatic plants

NOEC (Green algae, 3 Days): 100 mg/l

CE50 (Green algae, 3 Days): > 100 mg/l

Toxicity for soil-dwelling organisms

No data available

Toxicity for sediment-dwelling organisms

No data available

Toxicity for land plants

No data available

Toxicity for land organisms

No data available

Toxicity for microorganisms

CE50 (Pseudomonas putida, 0,7 Days): > 8 000 mg/l



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

FDS :864-193790-080118

08/01/2018

Page 13 sur 19

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich

Fish

LC 50 (Rainbow Trout, 4 DY): 2,4 mg/l

LC 50 (Cyprinodon variegatus, 4 DY): 3,3 mg/l

NOEC (Rainbow Trout, 4 DY): 1 mg/l

Aquatic invertebrates

CE50 (Water flea, 2 DY): 4,6 mg/l

NOEC (Water flea, 2 DY): 0,63 mg/l

Toxicity for aquatic plants

CE50 (Green algae, 3 DY): 63 mg/l

NOEC (Green algae, 3 DY): 0,313 mg/l

Toxicity for soil-dwelling organisms

No data available

Toxicity for sediment-dwelling organisms

No data available

Toxicity for land plants

No data available

Toxicity for land organisms

No data available

Toxicity for microorganisms

CE50 (Mud, 0,1 DY): 10 000 mg/l

C14-18 alpha-olefin epoxide, reaction products with boric acid

Fish

LC 50 (Rainbow Trout, 4 DY): > 100 mg/l

Aquatic invertebrates

CE50 (Water flea, 2 DY): > 100 mg/l

NOEC (Water flea, 2 DY): 100 mg/l

CE50 (Water flea, 21 DY): 20 mg/l

NOEC (Water flea, 21 DY): 10 mg/l

Toxicity for aquatic plants

CE50 (Green algae (Selenastrum capricornutum), 3 DY): > 100 mg/l

Toxicity for soil-dwelling organisms

No data available

Toxicity for sediment-dwelling organisms

No data available

Toxicity for land plants

No data available

Toxicity for land organisms

No data available



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

FDS :864-193790-080118

08/01/2018

Page 14 sur 19

Toxicity for microorganisms

CE50 (Mud, 0,1 DY): > 10 000 mg/l

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Fish

LC 50 (Poisson zèbre, 4 DY): 0,1 mg/l

Aquatic invertebrates

CE50 (Puce d'eau (Daphnia magna), 2 DY): 0,043 mg/l

EC 10 (Puce d'eau (Daphnia magna), 21 DY): 0,0107 mg/l

Toxicity for soil-dwelling organisms

CE50 (Algues (Pseudokirchneriella subcapitata), 3 DY): 0,0538 mg/l

NOEC (Algues (Pseudokirchneriella subcapitata), 3 DY): 0,0156 mg/l

Toxicity for microorganismes

CE50 (Boue, 3 h): 167 mg/l

2-Ethylhexyl methacrylate

Fish

LC 50 (Aphyosemion bivitatum, 4 DY): 2,78 mg/l

Aquatic invertebrates

CE50 (Water flea, 21 DY): 0,105 mg/l

NOEC (Water flea, 21 DY): 0,105 mg/l

Toxicity for soil-dwelling organisms

No data available

Toxicity for sediment-dwelling organisms

No data available

Toxicity for land plants

No data available

Toxicity for land organisms

No data available

12.1.2 Toxicity towards other organisms

As for the mixture: it has not been a subject of specific test

As for the components:

Petroleum base oil:

Very low toxicity. Toxicity for the microorganisms: NOEL/10min > 1.93 mg/L (DIN 38412, DIN38409)

12.2. Persistence and degradability



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

08/01/2018

FDS :864-193790-080118

Page 15 sur 19

12.2.1 Biodegradability

As for the mixture: it has not been a subject of specific test

As for the components:

Petroleum base oil:

Not easily degradable (OECD301B).

Isooctadecanoic acid, reaction products with tetraethylenepentamine

Formation of carbon dioxide 4,5 % (28 DY, OECD TG 301 B)

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Formation of carbon dioxide 0 % (28 DY, OECD TG 301 B)

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol

Oxygen depletion 2 % (28 DY, OECD TG 301 C)

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich

Oxygen depletion 9,6 % (28 DY, OECD TG 301 C)

C14-18 alpha-olefin epoxide, reaction products with boric acid

Dissolved organic carbon (COD) 17,3 % (28 DY, Divers)

Dissolved organic carbon (COD) 26,7 % (28 DY, Divers)

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Dissolved organic carbon 63 % (28 DY, OECD TG 301 D)

2-Ethylhexyl methacrylate

Dissolved organic carbon 88 % (28 DY, OECD TG 301 C)

12.2.2 Chemical degradation

As for the mixture: it has not been a subject of specific test

As for the components:

Petroleum base oil:

Not easily degradable.

12.3. Bioaccumulative potential

As for the mixture: it has not been a subject of specific test

As for the components:

Petroleum base oil:

It is possible that hydrocarbons (base-oil) pile up (log Kow > 6).



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

08/01/2018

FDS :864-193790-080118

Page 16 sur 19

Bioconcentration Factor (BCF)

Reaction products of Benzeneamine, N-phenyl- with nonene (branched)

Bioconcentration Factor (BCF): 1 584,89 (Measured)

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich

Bioconcentration Factor (BCF): 27,54 (Measured)

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Bioconcentration Factor (BCF): 110,2 (Measured)

2-Ethylhexyl methacrylate

Bioconcentration Factor (BCF): 37 (Measured)

Partition coefficient n-octanol/water (log Kow)

Isooctadecanoic acid, reaction products with tetraethylenepentamine

Log Kow: 45,8 (Measured)

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol

Log Kow: 9,4 (Measured)

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich

Log Kow: 4,1 (Measured)

C14-18 alpha-olefin epoxide, reaction products with boric acid

Log Kow: 9,4 (calculated)

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Log Kow: 3,6

2-Ethylhexyl methacrylate

Log Kow: 4,95 (Measured)

12.4 Mobility in soil

As for the mixture: it has not been a subject of specific test

As for the components:

Petroleum base oil:



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

FDS :864-193790-080118

08/01/2018

Page 17 sur 19

This product does not dissolve in water and is largely not volatile. This product may penetrate the soil until it reaches surface of groundwater. The degradation is coming about very slowly in anaerobic conditions. Hydrocarbons (base oil) may be absorbed in soil organic matter or sediments (log Kow > 6).

12.5 Results of PBT and vPvB assessment

As for the mixture: it has not been a subject of specific test

As for the components:

Petroleum base oil:

This substance is not considered as persistent, neither bioaccumulative nor toxic (PBT). This substance is not considered as very persistent, nor very bioaccumulative (vPvB). (anthracene < 0.1 %)

12.6. Other adverse effects

As for the mixture: it has not been a subject of specific test

As for the components:

Petroleum base oil:

The information given is based on data obtained from similar substances.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

· Recommendation:

Must not be disposed together with household waste.

· Waste disposal:

Do not allow product to reach sewage system.

Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14 - TRANSPORT INFORMATION

14.1. UN number

ADR, IMDG, IATA: Not regulated

14.2. UN proper shipping name

· ADR

Not regulated



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

08/01/2018

FDS :864-193790-080118

Page 18 sur 19

· **IMDG**

Not regulated

· **IATA**

Not regulated

14.3. Transport hazard class(es)

· **ADR**

Not regulated

· **IMDG, IATA**

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Individual precautions: The driver should not take action in case of cargo fire.

Keep public away from danger area.

IMMEDIATELY CONTACT POLICE AND FIREMEN.

Other information: None.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code"

Not identified.

SECTION 15 - REGULATORY INFORMATION

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

Be ensured that all notation or local regulations are observed.

European regulatory guidelines:

- Regulation (CE) n° 1907/2006 of the European Parliament and of the Council of 18 December 2006 for Registration, Evaluation, Authorization and Restriction of Chemical substances, as well as restrictions applicable to these substances (REACH), and establishing a European Chemicals Agency modifying directive 1999/45/CE and repealing Commission Regulation (CEE) n° 793/93 of Council Regulation (CE)



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL DCT FLUID

Replaces version 08/08/2016

FDS :864-193790-080118

08/01/2018

Page 19 sur 19

n° 1488/94 of the Commission as well as directive 76/769/CEE of Council and directives 91/155/CEE, 93/67/CEE, 93/105/CE and 2000/21/CE of the Commission, with modifications.

- Regulation (CE) n° 1272/2008 of the European Parliament and of the Council of 16 December 2008 for classification, labelling and packaging of substances and mixtures, modifying and repealing directives 67/548/CEE and 1999/45/CE and modifying the regulation (CE) n° 1907/2006, with modifications.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16 - OTHER INFORMATIONS

Modification

Sections 2/3/11/12/16: classification and information on components

Symbols and hazard phrases used in this document section 3:

- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.
- H400 - Very toxic to aquatic life.
- H411 - 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.

Since conditions or methods of use are not under our control, we assume no liability and expressly disclaim all liability for the use of this product. The information contained hereby is considered as true and accurate, but all declarations or suggestions are made without warranty of any kind, either expressed or implied, as to the accuracy of the information, the hazards associated with this product or results that could be obtained with the use of such product. The respect of all governmental, provincial and local regulations is left to the sole responsibility of the user.