



# SAFETY DATA SHEET

Conforme to reglementation 453/2010 - REACH

## KENNOL CENTRAL HYDRAULIC FLUID CHF

Replace version xx/xx/xxxx

FDS :959-196850-110416

11/04/2016

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

#### 1.1. Product identifier

- Product name: **KENNOL CENTRAL HYDRAULIC FLUID CHF**

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

- Commercial use: Power steering fluid (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)**

Acute Tox. 4 - H332

Asp. Tox. 1 - H304

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.



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### 2.2. Label elements

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

Contains 1-decene dimer hydrotreated

#### Hazard pictogram(s):



#### Signal word(s):

Danger

#### Hazard statement(s):

H304 May be fatal if swallowed and enters airways.

H332 Harmful if inhaled.

#### Precautionary statement(s) – Prevention

P261 Avoid breathing vapour/spray.

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

#### Precautionary statement(s) - Intervention

P271 Use only outdoors or in a well-ventilated area.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

#### Precautionary advice- Storage

P405 Store locked up.

#### Precautionary advice - Elimination

P501 - Dispose of contents/container to a hazardous waste collection center, as per national regulation

### 2.3. Other hazards

This product does not contain any PBT or vPvB substances.



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### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

- Hazardous ingredients:

COMPOSNTS	Percentage (in weight)	CLP Classification (EC) No <b>1272/2008</b>	NUMBERS
			INDEX CE CAS Registration
1-decene dimer hydrotreated	< 60%	Acute Tox. 4 - H332 Asp. Tox. 1 - H304	- 500-228-5 68649-11-6 0 1-2119493069-28-0002
Lubricating Oil (Petroleum) C15-30 hydrotreated neutral oil-based	< 60%	Asp. Tox. 1 - H304	- 276-737-9 72623-86-0 01-2119474878-16
Distillates (petroleum) Hydrotreated light;Kerosine unspecified	< 5%	Asp. Tox. 1 - H304	- 265-148-2 64742-46-7 01-2119826592-36
Mineral Oil	< 1%	-	-
Alkyl phénol	< 1%	Skin Irrit.2 – H315 Aquatic Acute 1 –H400 Aquatic Chronic 1 - H410	-

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**

##### General information

Get medical attention if any discomfort continues.

##### Inhalation

In case of inhalation of spray mist: Move person into fresh air and keep at rest. Get medical attention if any discomfort continues.

##### Ingestion



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Get medical attention if any discomfort continues. Do not induce vomiting.

### **Skin contact**

Remove contaminated clothing immediately and wash skin with soap and water.

### **Eye contact**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention promptly if symptoms occur after washing.

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

### **General information**

If aspiration into the lungs is suspected, eg when vomiting, admit to hospital immediately.

### **Inhalation**

Upper respiratory irritation.

### **Ingestion**

May cause discomfort if swallowed. The product contains mineral oil, which if aspirated into the lungs through vomiting after ingestion, may result in chemical pneumonia.

### **Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

### **Eye contact**

Irritation of eyes and mucous membranes.

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

Treat Symptomatically.

## **SECTION 5 – FIRE FIGHTING MEASURES**

### **5.1. Extinguishing media**

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

Hazardous combustion products

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed. Fire may also create other unidentified organic gases some of which may be toxic.

Unusual Fire & Explosion Hazards

Heat from fire could result in drums bursting

### **5.3. Advice for firefighters**

Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters



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Self-contained breathing apparatus.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### **6.1. Personal precautions, protective equipment and emergency procedures**

For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.

### **6.2. Environmental precautions**

Contain spillage with sand or earth. Do not allow to enter drains, sewers or watercourses. The product is insoluble in water and will spread on the water surface.

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

Contain spillage with sand or earth. Use sealed containers for reclamation or dispose of at a licenced hazardous waste collection point.

Avoid contact with water. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental

Agency or other appropriate regulatory body. In case of spillage on water prevent the spread by use of suitable barrier equipment

### **6.4. Reference to other sections**

For personal protection, see section 8. See section 11 for additional information on health hazards. For waste disposal, see section 13.

## SECTION 7 - HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

Avoid spilling, skin and eye contact. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed original container in a dry, cool and well-ventilated place. Storage Class  
Miscellaneous hazardous material storage.

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

The identified uses for this product are detailed in Section 1.2.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION



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### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
1-decene dimer hydrotreated	ACGIH		5 mg/m <sup>3</sup>			
Distillates (petroleum) Hydrotreated light;Kerosine unspecified	WEL		5 mg/m <sup>3</sup>			
Lubricating Oil (Petroleum) C15-30 hydrotreated neutral oil-based	ACGIH		5 mg/m <sup>3</sup>			
Mineral Oil	MEL		5 mg/m <sup>3</sup>			

WEL = Workplace Exposure Limit.

ACGIH = American Conference of Governmental Industrial Hygienists.

1 - decene dimer hydrotreated ( CAS : 68649 - 11 - 6 )

DNEL

Industry Inhalation. Short Term Systemic Effects 60 mg/m<sup>3</sup>

Consumer Inhalation. Short Term Systemic Effects 50 mg/m<sup>3</sup>

### 8.2. Exposure controls

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection



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The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

If risk of splashing, wear safety goggles or face shield.

Other Protection

Use barrier creams to prevent skin contact.

Hygiene measures

Wash promptly with soap & water if skin becomes contaminated.

Thermal hazards

Not anticipated under normal conditions of use. The product is combustible if heated excessively and an ignition source is applied.

Environmental Exposure Controls

Do not allow product to contaminate land.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Appearance

		Test method
Appearance	Coloured Liquid	
Colour	Green	
Odour	Mild	
Solubility	Insoluble in water Soluble in: Organic solvents.	
Initial boiling point and boiling range (°C)	>320C	
Melting point (°C)	Not applicable.	
Pour Point	-54C	
Relative density	0.827 @ 15C	
Vapour density (air=1)	>1 Air = 1	
Vapour pressure	<0.1 kPa @ 20C	
Evaporation rate	< 1	
n-butyl acetate	=1	
Viscosity	18.5 cSt @ 40C	
Not water soluble.		
Decomposition temperature (°C)	Not determined. > 200C	



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Flash point (°C) 156C PM Closed cup.

Auto Ignition Temperature (°C) Not determined

Flammability Limit - Lower(%)

Not determined.

Flammability Limit - Upper(%)

Not determined.

Partition Coefficient  
(N-Octanol/Water)

Not determined.

The product is a complex mixture and differing components will have greater or lesser affinities for various solvents.

Explosive properties

This product is not considered explosive.

Other Flammability

Product is not classified as flammable but is combustible.

Material is considered non-oxidizing.

### **9.2. Other information**

Refractive Index

Not determined.

Volatility Description Not considered volatile. Vapours may be emitted on excessive heating.

Volatile By Vol. (%)

Not determined.

Volatile Organic Compound (VOC) Trace present.

The product is a complex mixture, the majority of which would not be classed as a VOC. However it cannot be discounted that trace or low levels of VOC's may be present.

## **SECTION 10 - STABILITY AND REACTIVITY**

### **10.1. Reactivity**

No specific reactivity hazards associated with this product.

### **10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

### **10.3. Possibility of hazardous reactions**

Unlikely to occur under normal conditions of use.

Hazardous Polymerisation

Unlikely to occur.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.





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### 10.5. Incompatible materials

Materials To Avoid  
Strong oxidising substances.

### 10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### **Acute toxicity :**

Acute Toxicity (Oral LD50)

> 2000 mg/kg Rat

Data is based on information on components and knowledge and experience of this and similar product types.

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rabbit

Data is based on information on components and knowledge and experience of this and similar product types.

Acute Toxicity (Inhalation LC50)

1.17 mg/l (dust/mist) Rat

Value relates to 1-decene dimer hydrotreated. Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

#### **Skin Corrosion / Irritation :**

Based on available data the classification criteria are not met. Slightly irritating.

The classification criteria are not met. May cause mild skin irritation. Prolonged or repeated skin contact eg. from clothing wet with lubricant may cause dermatitis. Symptoms may include redness, edema, drying, and cracking skin.

#### **Serious eye damage / irritation :**

May cause mild, short lasting discomfort to eyes. Based on available data the classification criteria are not met.

#### **Respiratory or skin sensitisation :**

The product is unlikely to present any significant inhalation hazard at ambient temperatures and under normal conditions of use. Repeated exposure to oil mists may cause respiratory damage.

Not expected to be a skin sensitizer based on information on components.

#### **Carcinogenicity :**

This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP346 test



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### Reproductive Toxicity :

No data available to suggest the product will cause reproductive toxicity.

### Aspiration hazard :

Viscosity

Kinematic viscosity  $\leq 20.5$  mm<sup>2</sup>/s.

Product may be considered an aspiration hazard under CLP regulations.

### General information

This product has low toxicity. Only large volumes may have adverse impact on human health.

### Inhalation

Unlikely to be hazardous by inhalation because of the low vapour pressure of the substance at ambient temperature.

### Ingestion

No harmful effects expected in amounts likely to be ingested by accident.

### Skin contact

Skin irritation is not anticipated when used normally. Repeated exposure may cause skin dryness or cracking.

### Eye contact

May cause temporary eye irritation.

### Specific effects

Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.

## SECTION 12 - ECOLOGICAL INFORMATION

### Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large spills can have a harmful or damaging effect on the environment.

#### 12.1. Toxicity

##### Acute Fish Toxicity

The classification criteria are not met.

Not expected to be highly toxic to fish. Data based on information on components and knowledge and experience of similar product types.

Not expected to be highly toxic to aquatic invertebrates. Data based on information on components and knowledge and experience of similar product types.

#### 12.2. Persistence and degradability

The product contains mineral oil which has limited biodegradability in CEC test methods but will biodegrade slowly in aerobic water and sediments and is considered ultimately biodegradable.



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### Degradability

The product contains mineral oil which has limited biodegradability in CEC test methods but will biodegrade slowly in aerobic water and sediments and is considered ultimately biodegradable.

The product is based on highly refined mineral oils that are considered stable to hydrolysis.

The product is based on highly refined mineral oils that are considered stable to hydrolysis.

The product is considered stable in the presence of water.

### Biodegradation

Not determined.

The product is not considered readily biodegradable, albeit the major constituents are expected to ultimately biodegrade.

Inherently biodegradable Based on knowledge of ingredients.

### Biological Oxygen Demand

Not determined.

### Chemical Oxygen Demand

Not determined.

### **12.3. Bioaccumulative potential**

#### Bioaccumulative potential

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

#### Bioaccumulation factor

Not determined.

#### Partition coefficient

Not determined.

The product is a complex mixture and differing components will have greater or lesser affinities for various solvents.

### **12.4. Mobility in soil**

#### Mobility:

The product is non-volatile. The product is insoluble in water and will spread on the water surface.

#### Henry's Law Constant

Not determined.

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

Information is not available at this time.

### **12.6. Other adverse effects**

The product contains components at low concentrations that are considered toxic to the aquatic environment.



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### SECTION 13 - DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Dispose of in accordance with local and national regulations. In the E.U. used brake fluids are classified as Hazardous Waste. EWC number: 16.01.13.

Controlled incineration or recycling is recommended. Do not dispose of to landfill or drains. It is recommended that contaminated packaging is either incinerated or cleaned and sent for recycling.

### SECTION 14 - TRANSPORT INFORMATION

#### 14.1. UN number

ADR, IMDG, IATA: Not regulated

#### 14.2. UN proper shipping name

· **ADR**

Not regulated

· **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

None relevant

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

Not classified



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### 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, Authorisation and Restriction of Chemical substances, as well as 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) 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

A chemical safety assessment has not been carried out for this product by the supplier.

### SECTION 16 - OTHER INFORMATION

#### **Symbols and hazard phrases used in this document section 3:**

H315 Causes skin irritation.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

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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.