



# SAFETY DATA SHEET

Conforme to réglementation 453/2010 - REACH

**KENNOL FOF-37**

Replace version xx/xx/xxxx

03/08/2016

FDS :829-178680-030816

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

### 1.1. Product identifier

- Product name: **KENNOL FOF-37**

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

- Commercial use: Manufacturer coolant (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)**

H373- Specific Target Organ Toxicity (STOT) – repeated exposure cat 2 (CLP: STOT RE 2)

H302- Acute toxicity cat 4 - Harmful if swallowed (CLP: Acute tox. 4)



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## 2.2. Label elements

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

**Hazard pictogram(s):**



**Signal word(s):** ATTENTION

**Hazard statement(s):**

H373- May cause damage to organs through prolonged or repeated exposure when ingested.

H302- Harmful if swallowed.

**Precautionary statement(s) – Prevention**

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P260- Do not breathe vapours

P264- Wash your skin thoroughly after handling

P270- Do not eat, drink or smoke when using this product

**Precautionary statement(s) - Intervention**

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**Precautionary advice- Storage**

None

**Precautionary advice - Elimination**

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

**Additional phrase(s):** contains MONOETHYLENE GLYCOL (n°Index: 603-027-00-1) bittered.

## 2.3. Other hazards

- Health effects -Eyes: Liquid or vapour may cause slight temporary irritation.

- Health effects- Skin: Prolonged or repeated skin contact may cause irritation.

- Health effects-Ingestion: Ingestion may have the following effects: nausea, vomiting, central nervous system depression, unconsciousness, acidosis.

Long term effects include: liver damage, renal damage.



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- Health effects-Inhalation: The exposure to vapour or mist may have the following effects: nose, throat and respiratory tracts irritation.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2. Mixtures

- Chemical nature: formulated from demineralized water, ethylene glycol and various additives.

- Dangerous components:

COMPONENTS	Percentage (in weight)	CLP Classification (EC) No 1272/2008	NUMBERS
			INDEX CE CAS Registration
Ethane-1,2-diol	< 60%	Acute toxicity class 4  H302 H373	603-027-00-1 203-473-3 107-21-1 01-2119456816-28
Glycerin	< 10%	Not classified	56-81-5 200-289-5

This preparation also contains Denatonium Benzoate that is below the concentration limits given in CLP and/or guideline 64/548/CE regulation.

The glycerin is listed since it has an exposure limit value.

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

General indications

Poisoning symptoms may appear after a few ours, a medical monitoring of at least 48 hours is therefore essential. Remove contaminated and drenched clothing.

#### After inhalation

Move the subject away from the polluted area. Take affected person into fresh air. In case of persistent pain, consult a doctor.



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## **After skin contact**

Wash with plenty of water.

## **After eye contact**

In case of eye contact, rinse out immediately with plenty of water.

## **After ingestion**

Do not induce vomiting. Seek medical advice immediately. Never give an unconscious person anything to ingest.

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

No data available.

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

In case of ingestion, gastric lavage, then administration of charcoal (medical charcoal) and sodium sulphate.

## **SECTION 5 - FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Suitable extinguishing media: water, dry extinguishing media, foam

Unsuitable extinguishing media: no data available

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

In case of fire, they might be release of:

Carbon Dioxide (CO<sub>2</sub>);

Carbon monoxide (CO);

The gases released in case of fire are mainly classified as toxic through the respiratory route.

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

· Special safety equipment:

Wear a self-contained breathing apparatus.

Do not inhale explosion gases or combustion gases.

· Other indications:

Use water to cool exposed containers.

Fire product residues and contaminated water must be disposed of according to administrative directives.



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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel: refer to protection measures listed in chapters 7 and 8.

For emergency personnel: no data available

Personal safety equipment– cf. section 8.

### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the soil/subsoil.

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

Pick up with suitable absorbent material. Dilute with plenty of water.

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

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

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**

#### **Indications for a completely safe use:**

No particular measure if the storage and handling are appropriate.

Provide good ventilation of working area; where appropriate implement a mechanical aspiration of working area.

Avoid formation of aerosols.

#### **General measure for protection and hygiene**

Protect skin applying cream.

Avoid skin contact.

Keep away from aliments/beverage/feed.

Wash hands before breaks and when leaving workplace.

Do not inhale vapours.

#### **Indications for protection against fire and explosion**

No special measure is necessary.



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

Technical measures and storage conditions. The product is hygroscopic. Recommended storage temperature Value < 40 °C Requirements referring to storage areas and containers. The open packages must be closed carefully and kept upright.

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

No other important information available

## **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1. Control parameters**

Components presenting critical values that have to be monitored at the workplace:

#### **ETHANE-1,2-DIOL**

##### Valeurs limites sur les lieux de travail

N°	Dénomination de la substance	N° CAS	N° CE
1	éthane-1,2-diol	107-21-1	203-473-3
	2000/39/EWG		
	Ethylene glycol		
	VLE	104 mg/m <sup>3</sup>	40 ml/m <sup>3</sup>
	VME	52 mg/m <sup>3</sup>	20 ml/m <sup>3</sup>
	Résorption de l'épiderme / sensibilisateur	Skin	
	<b>Valeurs limites d'exposition professionnelle aux agent chimiques en France</b>		
	Ethylèneglycol		
	vapeurs		
	VLE	125 mg/m <sup>3</sup>	50 ml/m <sup>3</sup>

##### Valeurs DNEL et PNEC

###### valeurs DNEL ( travailleurs )

N°	Dénomination de la substance			N° CAS / CE
	Voie d'exposition	durée d'action	effet	Valeur
1	éthane-1,2-diol			107-21-1 203-473-3
	dermale	(chronique) à long terme	systémique	106 mg/kg/jour
	par inhalation	(chronique) à long terme	local	35 mg/m <sup>3</sup>

###### valeurs DNEL ( consommateur )

N°	Dénomination de la substance			N° CAS / CE
	Voie d'exposition	durée d'action	effet	Valeur
1	éthane-1,2-diol			107-21-1 203-473-3
	dermale	(chronique) à long terme	systémique	53 mg/kg/jour
	par inhalation	(chronique) à long terme	local	7 mg/m <sup>3</sup>



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## valeurs PNEC

N°	Dénomination de la substance	Type	N° CAS / CE
1	éthane-1,2-diol		107-21-1 203-473-3
	Eau	eau douce	10 mg/l
	Eau	eau marine	1 mg/l
	Eau	eau douce sédiment	20,9 mg/kg
	Eau	Eau dégagement intermittent	10 mg/l
	sol	-	1,53 mg/kg
	station d'épuration des eaux résiduaires (STP)	-	199,5 mg/l

**GLYCERIN : VME France : 10 mg/m<sup>3</sup>**

## 8.2. Exposure controls

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

### **Appropriate technical controls**

No data available

### **Personal protective equipment**

#### **Respiratory protection**

- filter A or self-contained breathing apparatus; in case of insufficient ventilation, wear a breathing apparatus.

#### **Eye/face protection**

Goggles (EN 166)

#### **Hands protection**

Gloves (EN 374): In case of skin contact risk, it is sufficient to wear approved gloves for instance complying with standards EN 374. Before each use, the glove must be tested according to its specific work-station suitability (such as mechanical resistance, compatibility with the product and antistatic properties). Comply with manufacturer instructions and information as to their use, storage, care and gloves replacement. Immediately replace damage or worn gloves. Operations must be conceived in order to avoid a permanent use of protection gloves.

Appropriate material                      butyl

Residence time                              Min.



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Appropriate material	vitone
Material thickness	0,6 - 0,8 mm
Residence time	> 480 Min.

### Various

Light protection clothing

### Environment exposure control

No data available.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Appearance

Aspect: Liquid

Density at 20°C (g/cm<sup>3</sup>): 1,08

Colour: orange

Smell: glycol feature

pH value: 8 units typical pH

Flash point (closed beaker) (°C): not applicable

Boiling point (°C) : 110

Freezing point (°C) : -37

Flammability (solid, gaseous): Not applicable.

Ignition temperature: Not defined

Self-inflammation: not defined

Risk of explosion: the product is not explosive. However, vapours+explosive air mixture may form.

Explosure limits in air of ethane-1,2-diol pure:

Lower: 3.2 %vol

Higher: 43% vol

Vapour pressure at 20°C: Not defined

Solubility: total in water

Sharing partition (n-octanol/wate): Not defined

### 9.2. Other information

No other important information available

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1. Reactivity





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No data available

## **10.2. Chemical stability**

Stable when used and stored normally

## **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

## **10.5. Incompatible materials**

Powerful oxidisers, alkaline metals, aluminium.

## **10.6. Hazardous decomposition products**

No hazardous decomposition products known

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

Toxicological information referring to ingredients.

**ETHANE-1,2-DIOL**



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Toxicité orale aiguë	
DL 50	7712 mg/kg
Espèces	rat
Source	CSR

  

Toxicité dermale aiguë	
DL 50	> 3500 mg/kg
Espèces	souris
Source	CSR

  

Toxicité aiguë par inhalation	
CL 50	> 2,5 mg/l
Durée d'exposition	6 h
Espèces	rat
Source	CSR

  

Corrosion cutanée/irritation cutanée	
Espèces	lapin
Source	CSR
Évaluation	Non irritant

  

Lésions oculaires graves/irritation oculaire	
Espèces	lapin
Source	CSR
Évaluation	Non irritant

  

Sensibilisation respiratoire ou cutanée	
Voie d'exposition	Peau
Espèces	cobaye
Source	CSR
Évaluation	non sensibilisant

  

Mutagénicité sur les cellules germinales	
Source	CSR
Remarque	Pas de données expérimentales disponibles sur la génotoxicité.

  

Toxicité pour la reproduction	
Source	CSR
Remarque	Pas de données expérimentales disponibles sur des effets toxiques sur la reproduction.

  

Cancérogénicité	
Source	CSR
Remarque	Pas de données expérimentales disponibles sur des effets cancérogènes.

  

Toxicité spécifique pour certains organes cibles — exposition unique	
Aucune donnée disponible	

  

Toxicité spécifique pour certains organes cibles — exposition répétée	
Aucune donnée disponible	

  

Danger par aspiration	
Aucune donnée disponible	

## SECTION 12 - ECOLOGICAL INFORMATION

### 12.1. Toxicity

Toxicological information referring to ingredients.

**ETHANE-1,2-DIOL**



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Toxicité sur poissons	
CL50	72860 mg/l
Durée d'exposition	96 h
Espèces	Pimephales promelas
Source	CSR

Toxicité sur daphnies	
CE50	> 100 mg/l
Durée d'exposition	48 h
Espèces	Daphnia magna
Source	CSR

Toxicité sur algues	
CE50	6500 - 13000 mg/l
Durée d'exposition	96 h
Espèces	Pseudokirchneriella subcapitata
Source	CSR

Toxicité sur bactéries	
CE 20	> 1995 mg/l
Durée d'exposition	30 min
Espèces	boue activée
Source	CSR

## 12.2. Persistence and degradability

Toxicological information referring to ingredients.

### ETHANE-1,2-DIOL

Biodégradabilité	
Source	CSR
Évaluation	facilement biodégradable

Reaction dans les épurateurs	
En cas d'introduction de faibles concentrations dans des stations d'épuration biologiques adaptées, altération de l'activité de dégradation des boues activées non probable.	

## 12.3. Bioaccumulative potential

Toxicological information referring to ingredients.

### ETHANE-1,2-DIOL

Facteur de bioconcentration (FBC)	
Remarque	Non potentiellement bioaccumulatif.

Coefficient de partage: n-octanol/eau	
log Pow	-1,36

## 12.4. Mobility in soil

No other important information available

Do not let the product, not diluted or in large quantity reach sewers and waterways

## 12.5. Results of PBT and vPvB assessment



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No other important information available

## 12.6. Other adverse effects

No other important information available

## **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

· 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



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## **14.5. Environmental hazards**

IMDG-Sea pollution: NO

Spill and leak procedure: Clean leakage or losses, even minor if possible without taking unnecessary risk.

## **14.6. Special precautions for user**

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

Emergency measures in the event of an accident: No open flames. Do not smoke

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"**

The mixture is not intended for bulk transport.

## **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 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**

Not applicable.

## **SECTION 16 - OTHER INFORMATION**

### **Modifications indications**

1<sup>st</sup> version



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

H302: Harmful if swallowed.

H373: May cause damage to organs through prolonged or repeated exposure by ingestion.

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