according to Regulation (EC) No. 1907/2006 - GB



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : CATENERA FLUID FT 2

Article-No. : 030082

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

Use of the : Lubricating oil

Substance/Mixture

Recommended restrictions

on use

: Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

KLÜBER LUBRICATION MÜNCHEN

Geisenhausenerstrasse 7 D-81379 München

Deutschland

Tel: +49 (0) 897876-0 Fax: +49 (0) 897876-333

E-mail address : mcm@klueber.com

Responsible/issuing person Material Compliance Management

National contact : Klüber Lubrication Great Britain Limited

Unit 10 Pennine Business Park

Longbow Close Huddersfield

West Yorkshire HD2 1GQ

Great Britain

Tel: +44-1422-205115 Fax: +44-1422-206073 sales@uk.klueber.com

1.4 Emergency telephone number

0049 (0) 897876-700 (24hrs)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting

effects.

Classification (67/548/EEC, 1999/45/EC)

Dangerous for the environment R52/53: Harmful to aquatic organisms, may cause



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

!>

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting

effects.

Precautionary statements : **Prevention:**

P264 Wash hands thoroughly after handling. P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mineral oil.

Hazardous components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
calcium bis(dinonylnaphthalene sulphonate)	57855-77-3 260-991-2	Xi; R36 Xi; R38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 3
zinc bis[O,O-bis(2- ethylhexyl)] bis(dithiophosphate)	4259-15-8 224-235-5	Xi; R41 N; R51/53	Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 1 - < 2.5
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	N; R50/53	Aquatic Acute 1; H400	>= 0.1 - < 0.25



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

Aquatic Chronic 1; H410

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

Keep patient warm and at rest.

If unconscious place in recovery position and seek medical

advice.

Keep respiratory tract clear.

If breathing is irregular or stopped, administer artificial

respiration.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with soap and plenty of water.

Get medical attention immediately if irritation develops and

persists.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : If eye irritation persists, consult a specialist.

Rinse immediately with plenty of water, also under the eyelids,

for at least 10 minutes.

If swallowed : Get medical attention if symptoms occur.

If unconscious place in recovery position and seek medical

advice.

Keep respiratory tract clear. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

: Move the victim to fresh air.

: Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

5. Firefighting measures

5.1 Extinguishing media

according to Regulation (EC) No. 1907/2006 - GB



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Fire may cause evolution of:

Carbon oxides Metal oxides

Oxides of phosphorus

Sulphur oxides

5.3 Advice for firefighters

Special protective equipment

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

In the case of respirable dust and/or fumes, use self-contained

breathing apparatus.

Exposure to decomposition products may be a hazard to

health.

Further information : Standard procedure for chemical fires.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Use personal protective equipment.

Ensure adequate ventilation.

Do not breathe vapours or spray mist.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Wash hands and face before breaks and immediately after

handling the product.

Do not get in eves or mouth or on skin.

Do not get on skin or clothing.

Do not ingest. Do not repack.

Do not re-use empty containers.

These safety instructions also apply to empty packaging which

may still contain product residues. Keep container closed when not in use. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store in original container.

Keep container closed when not in use. Keep in a dry, cool and well-ventilated place.

To maintain product quality, do not store in heat or direct

sunlight.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Store in accordance with the particular national regulations.

Keep in properly labelled containers.

7.3 Specific end use(s)

: Consult the technical guidelines for the use of this

substance/mixture.

8. Exposure controls/personal protection

8.1 Control parameters

Components 2,6-di-tert-	CAS-No. 128-37-0	Value type TWA	Control parameters 10 mg/m3	Update 2005-04-06	Basis GB EH40
butyl-p-cresol					
Further information:	2: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used				

according to Regulation (EC) No. 1907/2006 - GB



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

DNEL

2,6-di-tert-butyl-p-cresol : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 5.8 mg/m3

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 8.3 mg/kg

PNEC

2,6-di-tert-butyl-p-cresol : Soil

Value: 1.04 mg/kg

Fresh water sediment Value: 1.29 mg/kg

Marine water

Value: 0.0004 mg/l

Fresh water Value: 0.004 mg/l

Intermittent use/release Value: 0.004 mg/l

Microbiological Activity in Sewage Treatment Systems

Value: 100 mg/l

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Hand protection : Protective gloves

The selected protective gloves have to satisfy the

specifications of EU Directive 89/686/EEC and the standard

EN 374 derived from it.

The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has

to be measured for each case.

Eye protection : Safety glasses with side-shields conforming to EN166

Hygiene measures : Wash face, hands and any exposed skin thoroughly after

handling.

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to

the specific work-place.

Environmental exposure controls

General advice : Do not allow contact with soil, surface or ground water.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : brown

Odour : characteristic

Odour Threshold : No data available
pH : No data available
Melting point/range : No data available
Boiling point/boiling range : No data available

Flash point : >= 200 °C, Test Method: open cup, ISO 2592

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available

Vapour pressure : < 0.001 hPa, 20 °C

Relative vapour density : No data available

Density : 0.89 g/cm3, 20 °C

Water solubility : insoluble

Solubility in other solvents : No data available Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : No data available Ignition temperature : No data available Viscosity, dynamic : No data available Viscosity, kinematic : 115 mm2/s, 40 °C Oxidizing properties : No data available

9.2 Other information

Sublimation point : No data available Bulk density : No data available



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

10.6 Hazardous decomposition products

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute inhalation toxicity : This information is not available. Skin corrosion/irritation : This information is not available.

Serious eye damage/eye

irritation

: Irritating to eyes.

Respiratory or skin

sensitisation

: This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro : No data available
Genotoxicity in vivo : No data available
Carcinogenicity : No data available
Reproductive toxicity : No data available
Teratogenicity : No data available

Repeated dose toxicity : This information is not available.

Aspiration toxicity : This information is not available.

Further information : Information given is based on data on the components and

the toxicology of similar products.

Components:

according to Regulation (EC) No. 1907/2006 - GB



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

calcium bis(dinonylnaphthalenesulphonate):

Acute oral toxicity : LD50: > 5,000 mg/kg, rat

: LD50: > 20,000 mg/kg, rabbit Acute dermal toxicity

Skin corrosion/irritation rabbit, Result: Irritating to skin., Classification: Irritating to skin.

Serious eye damage/eye

rabbit, Result: Irritating to eyes., Classification: Irritating to

irritation eyes.

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) :

Acute oral toxicity : LD50: 3,100 mg/kg, rat, OECD Test Guideline 401

Acute dermal toxicity : LD50: > 5,000 mg/kg, rabbit, OECD Test Guideline 402

Skin corrosion/irritation : rabbit, Result: No skin irritation, Classification: No skin

irritation, OECD Test Guideline 404, GLP: yes

Serious eye damage/eye

irritation

rabbit, Result: Risk of serious damage to eyes., Classification:

Risk of serious damage to eyes., OECD Test Guideline 405,

GLP: yes

Severe eye irritation, May irritate eyes., Risk of serious

damage to eves.

Respiratory or skin

sensitisation

: Maximisation Test (GPMT), guinea pig, Result: Does not

cause skin sensitisation., OECD Test Guideline 406, GLP: yes

Further information Information given is based on data on the components and

the toxicology of similar products.

2,6-di-tert-butyl-p-cresol:

Acute oral toxicity : LD50: > 5,000 mg/kg, rat, OECD Test Guideline 401

: LD50: > 5,000 mg/kg, rat, OECD Test Guideline 402 Acute dermal toxicity

Skin corrosion/irritation rabbit, Result: No skin irritation, Classification: No skin

irritation

Serious eye damage/eye

irritation

rabbit, Result: No eye irritation, Classification: No eye irritation

Respiratory or skin

sensitisation

guinea pig, Result: Does not cause skin sensitisation.,

Classification: Does not cause skin sensitisation.

Germ cell mutagenicity

Genotoxicity in vitro : Ames test, Result: negative, In vitro tests did not show

mutagenic effects

Genotoxicity in vivo : In vivo micronucleus test, Result: negative

Assessment In vivo tests did not show mutagenic effects

: rat, NOAEL: 100 mg/kg Reproductive toxicity

Assessment: No toxicity to reproduction

Assessment: The substance or mixture is not classified as STOT - single exposure

specific target organ toxicant, single exposure.



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

STOT - repeated exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, repeated exposure.

12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish

Harmful to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

Toxicity to daphnia and other

aquatic invertebrates

No data available

Toxicity to algae

No data available

Toxicity to bacteria

No data available

Components:

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

Toxicity to fish : LC50: 4.4 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout),

semi-static test, OECD Test Guideline 203

:

Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 75 mg/l, 48 h, Daphnia magna (Water flea),

Immobilization, OECD Test Guideline 202

Toxicity to algae : ErC50: 240 mg/l, 72 h, Desmodesmus subspicatus (green

algae), Growth inhibition, OECD Test Guideline 201, GLP:

yes

Toxicity to bacteria : EC50: 380 mg/l, 16 h, Pseudomonas putida, GLP: yes

2,6-di-tert-butyl-p-cresol:

Toxicity to fish : LC50: > 0.57 mg/l, 96 h, Danio rerio (zebra fish), OECD Test

Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 0.17 mg/l, 48 h, Daphnia magna (Water flea)

Toxicity to algae : EC50: > 0.42 mg/l, 72 h, Desmodesmus subspicatus

(green algae)

M-Factor : 1

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: > 0.39 mg/l, 21 d, Daphnia magna (Water flea)

12.2 Persistence and degradability

according to Regulation (EC) No. 1907/2006 - GB



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

Product:

Biodegradability

No data available

Physico-chemical

: No data available

removability

Components:

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

Biodegradability : < 5 %, Result: not rapidly biodegradable, OECD 301 D

2,6-di-tert-butyl-p-cresol:

Biodegradability : Primary biodegradation, 4.5 %, Result: not rapidly

biodegradable, Exposure time: 28 d, activated sludge, OECD

301 C

12.3 Bioaccumulative potential

Product:

Bioaccumulation

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)., This mixture contains no substance considered to be very persistent nor

very bioaccumulating (vPvB).

12.4 Mobility in soil

Product:

Mobility : No data available Distribution among : No data available

environmental compartments

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Components:

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) :

Assessment : Non-classified PBT substance, Non-classified vPvB substance

2,6-di-tert-butyl-p-cresol:

Assessment : Non-classified PBT substance, Non-classified vPvB substance

12.6 Other adverse effects

Product:

Additional ecological : Harm

: Harmful to aquatic life with long lasting effects.

information

Components:

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) :

Additional ecological

: Toxic to aquatic life with long lasting effects.

information



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

13. Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

: Waste codes should be assigned by the user based on the

application for which the product was used.

Contaminated packaging : Empty containers can be landfilled, when in accordance with

the local regulations.

14. Transport information

14.1 UN number

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

Not dangerous goods

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

15. Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation

(Article 59).

: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

concern (Regulation (EC) No 1907/2006 (REACH), Article 57)

Major Accident Hazard

Legislation

: 96/82/EC Update:

not applicable

15.2 Chemical Safety Assessment

This information is not available.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R36 Irritating to eyes. R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Further information

This safety datasheet applies only to products originally packaged and labelled by KLÜBER LUBRICATION. The information contained therein is protected by copyright and must not be reproduced or amended without the express written approval of KLÜBER LUBRICATION. This

according to Regulation (EC) No. 1907/2006 - GB



CATENERA FLUID FT 2

Version 1.1 Revision Date 02.02.2015 Print Date 02.02.2015

document may be passed on only to the extent required by law. Any dissemination of our safety datasheets (e.g. as a document for download from the Internet) beyond this legally required extent is not permitted without express written consent. KLÜBER LUBRICATION provides its customers with amended safety datasheets as prescribed by law. The customer is responsible for passing on safety datasheets and any amendments contained therein to its own customers, employees and other users of the product. KLÜBER LUBRICATION provides no guarantee that safety datasheets received by users from third parties are up-to-date. All information and instructions in this safety datasheets were compiled to the best of our knowledge and are based on the information available to us. The data provided are intended to describe the product in relation to the required safety measures; they are neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and do not justify any contractual legal relationships.