

## Safety Data Sheet

### Fosser 2T

Revision date: 12.08.2021

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Fosser 2T

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

###### **Use of the substance/mixture**

Two-stroke engine oil

###### **Uses advised against**

No information available.

##### 1.3. Details of the supplier of the safety data sheet

Duran Lubricants & Chemicals GmbH  
Street: Rodderheide 3-7  
Place: D-33824 Werther  
Telephone: +49 (0)5203-901510 Telefax: +49 (0)5203-901515  
E-Mail: info@durand-oil.com  
Internet: www.fosser.de

**1.4. Emergency Telephone number:** Giftinformationszentrum Nord (Göttingen) - +49(0)551/19240

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### **Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

##### 2.2. Label elements

###### **Regulation (EC) No. 1272/2008**

###### **Special labelling of certain mixtures**

EUH208                      Contains A mixture of: dicalcium  
(bis(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)dihydroxide; tri-calcium  
(tris(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)tri-hydroxide; poly[calcium  
(2-hydroxy-5-tetrapropenyl-phenylmethyl)methylamine]hydroxide]. May produce an  
allergic reaction.

##### 2.3. Other hazards

No information available.

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

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#### Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
	A mixture of: dicalcium (bis(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)dihydroxide; tri-calcium (tris(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)tri-hydroxide; poly[calcium ((2-hydroxy-5-tetrapropenyl-phenylmethyl)methylamine)hydroxide]	0 - < = 0,25 %
	420-470-4	01-0000016710-77
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	

Full text of H and EUH statements: see section 16.

#### Further Information

This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove affected person from the danger area and lay down.  
Do not leave affected person unattended.  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After inhalation

Provide fresh air. Call a doctor if you feel unwell.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.  
Take off contaminated clothing and wash it before reuse.  
In case of skin irritation, consult a physician.

##### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

##### After ingestion

Rinse mouth thoroughly with water.  
Let water be drunk in little sips (dilution effect).  
Do NOT induce vomiting.  
In all cases of doubt, or when symptoms persist, seek medical advice.

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

If swallowed or in the event of vomiting, risk of entering the lungs.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Use water spray jet to protect personnel and to cool endangered containers.

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Co-ordinate fire-fighting measures to the fire surroundings.

- Water spray jet
- Carbon dioxide (CO<sub>2</sub>).
- Extinguishing powder

#### **Unsuitable extinguishing media**

High power water jet.

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

Formation of toxic gases is possible during heating or in case of fire.

In case of fire may be liberated:

- Nitrogen oxides (NO<sub>x</sub>)
- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>).
- Pyrolysis products, toxic

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

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

In case of fire and/or explosion do not breathe fumes.

#### **Additional information**

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**

##### **General measures**

Keep people at a distance and stay on the windward side.

Special danger of slipping by leaking/spilling product.

##### **For non-emergency personnel**

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

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

Prevent spread over a wide area (e.g. by containment or oil barriers).

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

##### **For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

##### **For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

Remove from the water surface (e.g. skimming, sucking).

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

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

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

##### **Advice on safe handling**

Avoid formation of oil dust.

Use personal protection equipment.

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Do not put any product-impregnated cleaning rags into your trouser pockets.  
Clear spills immediately.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.  
Take precautionary measures against static discharges.  
Keep away from sources of ignition - No smoking.

#### Further information on handling

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

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

##### Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.  
Keep container tightly closed.  
Floors should be impervious, resistant to liquids and easy to clean.

##### Hints on joint storage

Do not store together with:  
- Materials capable of ignition under almost all normal temperature conditions  
- Explosives

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

Two-stroke engine oil

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
	A mixture of: dicalcium (bis(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)dihydroxide; tri-calcium (tris(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)tri-hydroxide; poly[calcium ((2-hydroxy-5-tetrapropenyl-phenylmethyl)methylamine)hydroxide]		
Worker DNEL, long-term	inhalation	systemic	8,7 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	104 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	52 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	104 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	3,3 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	40 mg/kg bw/day

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#### PNEC values

CAS No	Substance	
	Environmental compartment	Value
	A mixture of: dicalcium (bis(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)dihydroxide; tri-calcium (tris(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)tri-hydroxide; poly[calcium ((2-hydroxy-5-tetrapropenyl-phenylmethyl)methylamine)hydroxide]	
	Freshwater	0,066 mg/l
	Freshwater (intermittent releases)	0,066 mg/l
	Marine water	0,066 mg/l
	Marine water (intermittent releases)	0,066 mg/l
	Micro-organisms in sewage treatment plants (STP)	0,02 mg/l

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.

When using do not eat, drink, smoke, sniff.

#### Eye/face protection

During filling, metering, mixing and sampling must be used:

Wear eye/face protection. DIN EN 166

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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#### SECTION 9: Physical and chemical properties

##### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	yellow	
Odour:	characteristic	
Odour threshold:	not determined	
pH-Value:		not determined

##### **Changes in the physical state**

Melting point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Pour point:		-21 °C
Flash point:		192 °C

##### **Flammability**

Solid/liquid:		not applicable
Gas:		not applicable

##### **Explosive properties**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower explosion limits:		not determined
Upper explosion limits:		not determined

##### **Self-ignition temperature**

Solid:		not applicable
Gas:		not applicable

Decomposition temperature:		not determined
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##### **Oxidizing properties**

The product is not: oxidising.

Vapour pressure:		not determined
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Density (at 15 °C):		0,878 g/cm <sup>3</sup>
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Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
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##### **Solubility in other solvents**

not determined

Partition coefficient n-octanol/water:		not determined
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Viscosity / kinematic: (at 40 °C)		76,4 mm <sup>2</sup> /s
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Relative vapour density:		not determined
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Evaporation rate:		not determined
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##### 9.2. Other information

Solid content:		not determined
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#### SECTION 10: Stability and reactivity

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#### **10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

#### **10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

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

The formation of combustible vapours is possible at temperatures above: Flash point

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

Avoid: Thermal decomposition

#### **10.5. Incompatible materials**

Materials to avoid:

- Oxidising agent
- Reducing agent
- Acids

#### **10.6. Hazardous decomposition products**

Hazardous combustion products:

- Nitrogen oxides (NO<sub>x</sub>)
- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>)
- Pyrolysis products, toxic

## SECTION 11: Toxicological information

### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

#### **Irritation and corrosivity**

Based on available data, the classification criteria are not met.

#### **Sensitising effects**

Contains A mixture of: dicalcium (bis(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)dihydroxide; tri-calcium (tris(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)tri-hydroxide; poly[calcium ((2-hydroxy-5-tetrapropenyl-phenylmethyl)methylamine)hydroxide]. May produce an allergic reaction.

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)

#### **STOT-single exposure**

Based on available data, the classification criteria are not met.

#### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Additional information on tests**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### **11.2. Information on other hazards**

#### **Endocrine disrupting properties**

No information available.

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#### SECTION 12: Ecological information

##### **12.1. Toxicity**

There are no data available on the mixture itself.

##### **12.2. Persistence and degradability**

There are no data available on the mixture itself.

##### **12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

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

There are no data available on the mixture itself.

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

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

##### **12.6. Endocrine disrupting properties**

No information available.

##### **12.7. Other adverse effects**

No information available.

#### SECTION 13: Disposal considerations

##### **13.1. Waste treatment methods**

###### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

###### **Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

#### SECTION 14: Transport information

##### **Land transport (ADR/RID)**

###### **14.1. UN number:**

No dangerous good in sense of this transport regulation.

###### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

###### **14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

###### **14.4. Packing group:**

No dangerous good in sense of this transport regulation.

##### **Inland waterways transport (ADN)**

###### **14.1. UN number:**

No dangerous good in sense of this transport regulation.

###### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

###### **14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

###### **14.4. Packing group:**

No dangerous good in sense of this transport regulation.

##### **Marine transport (IMDG)**

###### **14.1. UN number:**

No dangerous good in sense of this transport regulation.

###### **14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

###### **14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

###### **14.4. Packing group:**

No dangerous good in sense of this transport regulation.

##### **Air transport (ICAO-TI/IATA-DGR)**



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- 14.1. UN number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

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

No dangerous good in sense of this transport regulation.

#### **14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

### SECTION 15: Regulatory information

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

##### **EU regulatory information**

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### **National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water  
Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

#### **15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### **Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16.

#### **Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%

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EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

#### Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
EUH208	Contains A mixture of: dicalcium (bis(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)dihydroxide; tri-calcium (tris(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)tri-hydroxide; poly[calcium ((2-hydroxy-5-tetrapropenyl-phenylmethyl)methylamine)hydroxide]. May produce an allergic reaction.

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*