

## ANDEROL FG XL 100

Version 1.0

Revision Date 22.11.2011

Print Date 28.11.2011

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

#### 1.1 Product identifier

Trade name : ANDEROL FG XL 100

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

Use of the Substance/Mixture : Lubricant

Recommended restrictions on use : Restricted to professional users.

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

Company: Manufacturer  
Anderol Specialty Lubricants, a division of Chemtura Corporation  
Groot Egtenrayseweg 23  
5928 PA Venlo  
Netherlands

Telephone : +31-77 396 0340

Supplier  
Chemtura Manufacturing UK Limited  
Tenax Road, Trafford Park  
Manchester  
United Kingdom  
M17 1WT

Prepared by: msdsrequest@chemtura.com

Further information for the safety data sheet :  
msdsrequest@chemtura.com

#### 1.4 Emergency telephone number

Emergency telephone number: +44 (0) 1235 239 670 (NCEC)  
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

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### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

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 long-term adverse effects in the aquatic environment.

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard statements : H412

Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273  
**Disposal:**  
P501

Avoid release to the environment.

Dispose of contents/ container to an approved waste disposal plant.

**Additional Labelling:**

EUH208 Contains: N-1-naphthylaniline May produce an allergic reaction.

#### 2.3 Other hazards

No information available.

### 3. Composition/information on ingredients

#### 3.2 Mixtures

**Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1;	>= 0,25 - < 2,5

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			H410	
N-1-naphthylaniline	90-30-2 201-983-0	Xn; R22 Xi; R43 N; R50/53	Acute Tox. 4; H302 Aquatic Acute 1; H400 Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Chronic 1; H410	>= 0,25 - < 1
Amines, C11-14- branched alkyl, monohexyl and dihexyl phosphates	80939-62-4 279-632-6	Xi; R36/38 N; R51/53	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	< 2,5

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

- General advice : No hazards which require special first aid measures.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

Symptoms : None known.

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

Treatment : For specialist advice physicians should contact the Poisons Information Service.

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### **5. Firefighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

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

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### **6. Accidental release measures**

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

Personal precautions : Use personal protective equipment.

#### **6.2 Environmental precautions**

Environmental precautions : 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 : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

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

Refer to protective measures listed in sections 7 and 8.

### **7. Handling and storage**

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

Advice on safe handling : For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

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Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Other data : No decomposition if stored and applied as directed.

### **7.3 Specific end uses**

Specific use(s) : Raw material for industry

## **8. Exposure controls/personal protection**

### **8.1 Control parameters**

Contains no substances with occupational exposure limit values.

### **8.2 Exposure controls**

#### **Engineering measures**

Effective exhaust ventilation system  
Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Personal protective equipment**

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection : Polyvinyl alcohol or nitrile- butyl-rubber gloves  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
Before removing gloves clean them with soap and water.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.

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### Environmental exposure controls

General advice : 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 : clear

Odour : characteristic  
Odour Threshold : No information available.  
Flash point : 238 °C

Ignition temperature : No information available.

Lower explosion limit : No information available.

Upper explosion limit : No information available.  
Flammability (solid, gas) : No information available.  
Autoignition temperature : No information available.  
pH : No information available.  
Vapour pressure : No information available.  
Density : 0,848 g/cm<sup>3</sup>

Water solubility : No information available.  
Partition coefficient: n-  
octanol/water : No information available.  
Solubility in other solvents : No information available.  
Viscosity, kinematic : 987,5 mm<sup>2</sup>/s  
at 40 °C

Relative vapour density : No information available.  
Evaporation rate : No information available.

### 9.2 Other information

Oxidising potential : Note: No information available.

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### **10. Stability and reactivity**

#### **10.1 Reactivity**

Stable under recommended storage conditions.

#### **10.2 Chemical stability**

No decomposition if stored and applied as directed.

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

Hazardous reactions : Note: No decomposition if used as directed.

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

Conditions to avoid : Exposure to moisture.  
Contamination

#### **10.5 Incompatible materials**

Materials to avoid : Strong acids and oxidizing agents

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

Hazardous decomposition products : nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides

### **11. Toxicological information**

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

##### **Acute toxicity**

Acute oral toxicity : Remarks: Not classified due to lack of data.

Acute oral toxicity  
2,6-di-tert-butyl-p-cresol : LD50: > 2.930 mg/kg  
Species: rat  
Method: OECD Test Guideline 401

N-1-naphthylaniline : LD50: 1.625 mg/kg  
Species: rat

Acute inhalation toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity

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2,6-di-tert-butyl-p-cresol : LD50: > 2.000 mg/kg  
Species: rat  
Method: OECD Test Guideline 402

N-1-naphthylaniline : LD50 Dermal: > 5.000 mg/kg  
Species: rabbit

### Skin corrosion/irritation

Skin irritation : Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Skin irritation  
2,6-di-tert-butyl-p-cresol : Species: rabbit  
Result: No skin irritation

N-1-naphthylaniline : Species: rabbit  
Result: No skin irritation  
Method: Draize Test

### Serious eye damage/eye irritation

Eye irritation : Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Eye irritation  
2,6-di-tert-butyl-p-cresol : Species: rabbit  
Result: No eye irritation

N-1-naphthylaniline : Species: rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405

### Respiratory or skin sensitization

Sensitisation : Remarks: Not classified due to lack of data.

Sensitisation  
2,6-di-tert-butyl-p-cresol : Species: guinea pig  
Classification: Did not cause sensitization on laboratory animals.

N-1-naphthylaniline : Maximisation Test  
Species: guinea pig  
Classification: May cause sensitization by skin contact.



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Patch Test  
Species: Human  
Classification: May cause sensitization by skin contact.

Germ cell mutagenicity  
2,6-di-tert-butyl-p-cresol

: Ames test  
Result: negative

Chromosome aberration test in vitro  
Result: Conflicting results have been seen in different studies.

Unscheduled DNA synthesis (UDS)  
Result: negative

In Vitro mammalian Cell Gene Mutation Test  
Result: negative

N-1-naphthylaniline

: Ames test  
Result: negative

Chinese Hamster Ovary (CHO)  
Result: negative

Genotoxicity in vivo  
2,6-di-tert-butyl-p-cresol

: Micronucleus test  
Species: mouse  
Method: Mutagenicity (micronucleus test)  
Result: negative

in vivo assay  
Species: rat  
Method: Mutagenicity (in vivo mammalian bone-marrow  
cytogenetic test, chromosomal analysis)  
Result: negative

N-1-naphthylaniline

: in vivo assay  
Species: mouse  
Result: negative

### Mutagenicity Assessment

Remarks : Not classified due to lack of data.

### Carcinogenicity Assessment

Remarks : Not classified due to lack of data.

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### Reproductive toxicity Assessment

Remarks : Not classified due to lack of data.

### Target Organ Systemic Toxicant - Single exposure

: Remarks: Not classified due to lack of data.

### Target Organ Systemic Toxicant - Repeated exposure

: Remarks: Not classified due to lack of data.

### Aspiration hazard

Aspiration toxicity : No aspiration toxicity classification

### Toxicology Assessment

Further information : no data available

## 12. Ecological information

### 12.1 Toxicity

Toxicity to fish :  
Remarks:  
no data available

Toxicity to fish  
N-1-naphthylaniline : LC50: 0,44 mg/l  
Exposure time: 96 h  
  
Species: Oncorhynchus mykiss (rainbow trout)  
semi-static test Analytical monitoring: yes

Toxicity to daphnia and other  
aquatic invertebrates. : Remarks:  
no data available

Toxicity to daphnia and other aquatic invertebrates.  
N-1-naphthylaniline : EC50: 0,68 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
semi-static test Analytical monitoring: yes

Toxicity to daphnia and other aquatic invertebrates. (Chronic toxicity)

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2,6-di-tert-butyl-p-cresol : NOEC: 0,07 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: yes

N-1-naphthylaniline : NOEC: 0,02 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: yes

### 12.2 Persistence and degradability

Biodegradability : Result: no data available

Biodegradability  
2,6-di-tert-butyl-p-cresol : aerobic  
Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
4,5 %

N-1-naphthylaniline : aerobic  
Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
0 %  
Method: OECD Test Guideline 301

### 12.3 Bioaccumulative potential

Bioaccumulation : Remarks:  
no data available

Bioaccumulation  
2,6-di-tert-butyl-p-cresol : Species: Cyprinus carpio (Carp)  
Exposure time: 56 d  
Temperature: 25 °C  
Concentration: 0,05 mg/l  
Bioconcentration factor (BCF): 230 - 2.500

N-1-naphthylaniline : Species: Cyprinus carpio (Carp)  
Exposure time: 56 d  
Temperature: 25 °C  
Concentration: 0,1 mg/l  
Bioconcentration factor (BCF): 427 - 2.730

### 12.4 Mobility in soil

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Mobility : Remarks:  
no data available

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

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

### **12.6 Other adverse effects**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## **13. Disposal considerations**

### **13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

## **14. Transport information**

**ADR**  
Not dangerous goods

**IATA**  
Not dangerous goods

**IMDG**  
Not dangerous goods

**RID**  
Not dangerous goods

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### 15. Regulatory information

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

Candidate List of Substances of Very High Concern for Authorisation : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard Legislation : 96/82/EC Update: 2003  
Directive 96/82/EC does not apply

Water contaminating class (Germany) : WGK 1 slightly water endangering self classification

#### Notification status

US.TSCA : On TSCA Inventory  
DSL : All components of this product are on the Canadian DSL list.  
AICS : On the inventory, or in compliance with the inventory  
NZIoC : Not in compliance with the inventory  
ENCS : Not in compliance with the inventory  
KECI : On the inventory, or in compliance with the inventory  
PICCS : On the inventory, or in compliance with the inventory  
IECSC : On the inventory, or in compliance with the inventory

#### 15.2 Chemical Safety Assessment

No information available.

### 16. Other information

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

R22 Harmful if swallowed.  
R36/38 Irritating to eyes and skin.  
R43 May cause sensitization by skin contact.  
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.

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H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
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**

**Carechem24 International Worldwide Coverage - Chemtura Corporation**

**Emergency Phone Number**

<u>Europe:</u>	All European Countries	+44 (0) 1235 239 670 (NCEC)
<u>Asia Pacific:</u>	East / South East Asia – Regional Number	+65 3158 1074
	Australia	+61 2801 44558
	New Zealand	+64 9929 1483
	China Taiwan	+86 10 5100 3039
	Japan	+81 345 789 341
	Indonesia	00780 3011 0293
	Malaysia	+60 3 6207 4347
	Thailand	001800 1 2066 6751
	Korea	+65 3158 1285
	Vietnam	+65 3158 1255
	India	+65 3158 1198
	Pakistan	+65 3158 1329
	Philippines	+65 31581203
	Sri Lanka	+65 3158 1195
	Bangladesh	+65 3158 1200
<u>Middle East / Africa:</u>	Arabic speaking countries	+44 (0) 1235 239 671
	All other countries	+44 (0) 1235 239 670
<u>America</u>	United States / Canada	001866 928 0789
<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
	Mexico	+52 555 004 8763

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