

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version	Revision Date:	SDS Number:	Date of last issue: 14.10.2020
1.9	18.08.2022	000000007116	Date of first issue: 22.11.2011

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### SECTION 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 Sub-  
stance/Mixture : Lubricant

Recommended restrictions : Restricted to professional users.  
on use

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

Company: Supplier  
LANXESS Deutschland GmbH  
Production, Technology, Safety & Environment  
Leverkusen  
Germany  
51369

Manufacturer  
Anderol Specialty Lubricants  
Groot Egtenrayseweg 23  
5928 PA Venlo  
Netherlands  
Telephone : +31-77 396 0340

Prepared by : Production, Technology, Safety & Environment  
+4922188852288

Further information for the safety data sheet : in-  
fosds@lanxess.com

#### 1.4 Emergency telephone number

+44 20 3885 0382 (CCN1001748)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Long-term (chronic) aquatic hazard, Cat- H412: Harmful to aquatic life with long lasting ef-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version 1.9      Revision Date: 18.08.2022      SDS Number: 000000007116      Date of last issue: 14.10.2020  
Date of first issue: 22.11.2011

Category 3

Effects.

### 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 Avoid release to the environment.  
**Disposal:**  
P501 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

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119555270-46-xxxx	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 1$ - $< 2,5$
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1 270-128-1 01-2119491299-23-0002	Repr. 2; H361f	$\geq 0,1$ - $< 1$
N-1-naphthylaniline	90-30-2 201-983-0	Acute Tox. 4; H302 Skin Sens. 1B;	$\geq 0,25$ - $< 1$

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version 1.9      Revision Date: 18.08.2022      SDS Number: 000000007116      Date of last issue: 14.10.2020  
Date of first issue: 22.11.2011

	01-2119488704-27-xxxx	H317 STOT RE 2; H373 (Blood, Kidney) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
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For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- 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.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version	Revision Date:	SDS Number:	Date of last issue: 14.10.2020
1.9	18.08.2022	000000007116	Date of first issue: 22.11.2011

---

cumstances and the surrounding environment.

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

Specific hazards during fire-fighting : 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.

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## SECTION 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 material 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

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## SECTION 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.

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

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

### 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version 1.9      Revision Date: 18.08.2022      SDS Number: 000000007116      Date of last issue: 14.10.2020  
Date of first issue: 22.11.2011

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Raw material for industry

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2,6-di-tert-butyl-p-cresol	Workers	Skin contact		0,5 mg/kg
	Workers	Inhalation		3,5 mg/m <sup>3</sup>
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Workers	Dermal	Long-term systemic effects	0,62 mg/kg
	Workers	Inhalation	Long-term systemic effects, Systemic effects	4,37 mg/m <sup>3</sup>
	General exposures	Skin contact	Chronic effects, Systemic effects	0,31 mg/kg
	General exposures	Inhalation	Chronic effects, Systemic effects	1,09 mg/m <sup>3</sup>
	General exposures	Ingestion	Chronic effects, Systemic effects	0,31 mg/kg
N-1-naphthylaniline	Workers	Inhalation	Long-term systemic effects	0,18 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	44 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0,05 mg/kg
	Workers	Dermal	Acute systemic effects	6,67 mg/kg
	General exposures	Inhalation	Long-term systemic effects	0,044 mg/m <sup>3</sup>
	General exposures	Inhalation	Acute systemic effects	33 mg/m <sup>3</sup>
	General exposures	Dermal	Long-term systemic effects	0,03 mg/kg
	General exposures	Dermal	Long-term systemic effects	3,33 mg/kg
	General exposures	Ingestion	Long-term systemic effects	0,03 mg/kg
	General exposures	Ingestion	Acute systemic effects	8 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version 1.9      Revision Date: 18.08.2022      SDS Number: 000000007116      Date of last issue: 14.10.2020  
Date of first issue: 22.11.2011

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2,6-di-tert-butyl-p-cresol	Fresh water	0,000199 mg/l
	Marine water	0,000019 mg/l
	Fresh water sediment	0,0996 mg/kg
	Marine sediment	0,00996 mg/kg
	Soil	0,04769 mg/kg
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Fresh water	0,051 mg/l
	Marine water	0,0051 mg/l
	Fresh water sediment	9320 mg/kg
	Marine sediment	932 mg/kg
	Soil	1860 mg/kg
	STP	1 mg/l
N-1-naphthylaniline	Fresh water	0,0002 mg/l
	Marine water	0,00002 mg/l
	Fresh water sediment	0,0344 mg/kg
	Marine sediment	0,00344 mg/kg
	Soil	0,0068 mg/kg
	STP	100 mg/l

### 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

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

Hand protection

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water.

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

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

#### Environmental exposure controls

Water :  
No special precautions required.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version	Revision Date:	SDS Number:	Date of last issue: 14.10.2020
1.9	18.08.2022	000000007116	Date of first issue: 22.11.2011

---

### SECTION 9: Physical and chemical properties

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

Physical state	:	liquid
Colour	:	clear
Odour	:	characteristic
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	238 °C
pH	:	No data available
Viscosity		
Viscosity, kinematic	:	98,5 mm <sup>2</sup> /s (40 °C)
Solubility(ies)		
Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	0,848 g/cm <sup>3</sup>

#### 9.2 Other information

Flammability (liquids)	:	No data available
Oxidizing potential	:	No information available.

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### SECTION 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	:	No decomposition if used as directed.
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#### 10.4 Conditions to avoid

Conditions to avoid	:	Exposure to moisture Contamination
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version	Revision Date:	SDS Number:	Date of last issue: 14.10.2020
1.9	18.08.2022	000000007116	Date of first issue: 22.11.2011

---

### 10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen oxides (NOx)  
Carbon oxides

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## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Components:

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

Acute oral toxicity : LD50 (Rat, male and female): > 2.930 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

##### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

##### **N-1-naphthylaniline:**

Acute oral toxicity : LD50 (Rat): 1.625 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit, male): > 5.000 mg/kg

#### Skin corrosion/irritation

##### Product:

Remarks : According to the classification criteria of the European Union,



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version	Revision Date:	SDS Number:	Date of last issue: 14.10.2020
1.9	18.08.2022	000000007116	Date of first issue: 22.11.2011

---

the product is not considered as being a skin irritant.

### Components:

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

Species : Rabbit  
Result : No skin irritation

#### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Species : Rabbit  
Method : OECD-Guideline No. 404  
Result : Mild skin irritation

#### **N-1-naphthylaniline:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : no

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

#### Product:

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

### Components:

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

Species : Rabbit  
Result : No eye irritation

#### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

#### **N-1-naphthylaniline:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : no

### **Respiratory or skin sensitisation**

#### Components:

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

Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version 1.9      Revision Date: 18.08.2022      SDS Number: 000000007116      Date of last issue: 14.10.2020  
Date of first issue: 22.11.2011

---

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406

### **N-1-naphthylaniline:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Probability or evidence of low to moderate skin sensitisation rate in humans  
GLP : no

### **Germ cell mutagenicity**

#### **Components:**

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

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: unscheduled DNA synthesis assay  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Method: Mutagenicity (micronucleus test)  
Result: negative  
  
Test Type: in vivo assay  
Species: Rat (male)  
Cell type: Bone marrow  
Application Route: Oral  
Method: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Result: negative

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version 1.9      Revision Date: 18.08.2022      SDS Number: 000000007116      Date of last issue: 14.10.2020  
Date of first issue: 22.11.2011

---

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

### **N-1-naphthylaniline:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.

Test Type: Chinese Hamster Ovary (CHO)  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Mouse (male)  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 478  
Result: negative  
GLP: No information available.

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects., Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### **Carcinogenicity**

#### **Components:**

### **N-1-naphthylaniline:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

### **Reproductive toxicity**

#### **Components:**

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

Reproductive toxicity - Assessment : No toxicity to reproduction  
No effects on or via lactation

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Oral  
Dose: 25-75-225 milligram per kilogram  
General Toxicity - Parent: NOAEL: 25 mg/kg bw/day

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version 1.9      Revision Date: 18.08.2022      SDS Number: 000000007116      Date of last issue: 14.10.2020  
Date of first issue: 22.11.2011

---

Fertility: NOEL: 225 mg/kg bw/day  
Method: OECD Test Guideline 422  
Result: Animal testing did not show any effects on fertility.  
GLP: yes

Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Strain: wistar  
Application Route: Ingestion  
Dose: 0-200-600-1800 parts per million  
Method: OECD Test Guideline 443  
Result: Some evidence of adverse effects on development, based on animal experiments.  
GLP: No information available.

Effects on foetal development

: Test Type: Embryo-foetal development  
Species: Rabbit, female  
Application Route: Oral  
Dose: 10-30-100 milligram per kilogram  
General Toxicity Maternal: NOAEL: 30 mg/kg bw/day  
Teratogenicity: NOAEL: 100 mg/kg bw/day  
Developmental Toxicity: NOEL: 30 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses  
GLP: yes

Test Type: Embryo-foetal development  
Species: Rat, female  
Application Route: Oral  
Dose: 50-150-500 milligram per kilogram  
General Toxicity Maternal: NOAEL: 150 mg/kg bw/day  
Teratogenicity: NOAEL: 500 mg/kg bw/day  
Developmental Toxicity: NOAEL: 500 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: negative  
GLP: yes

Reproductive toxicity - Assessment

: Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

### **N-1-naphthylaniline:**

Effects on foetal development

: Test Type: Pre-natal  
Species: Rat, female  
Application Route: Oral  
Dose: 15 - 50 - 150 milligram per kilogram  
General Toxicity Maternal: NOAEL: 50 mg/kg bw/day  
Developmental Toxicity: NOAEL: 150 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version 1.9      Revision Date: 18.08.2022      SDS Number: 000000007116      Date of last issue: 14.10.2020  
Date of first issue: 22.11.2011

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### STOT - repeated exposure

#### Components:

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

Exposure routes : Oral  
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### **N-1-naphthylaniline:**

Exposure routes : Oral  
Target Organs : Blood, Kidney  
Assessment : May cause damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

#### Components:

##### **N-1-naphthylaniline:**

Species : Rat, male and female  
LOAEL : 5 mg/kg  
Application Route : Oral  
Exposure time : 90 h  
Number of exposures : dail  
Dose : 5 - 25 - 50 mg/kg bw/day  
Method : OECD Test Guideline 408  
GLP : yes  
Remarks : Subchronic toxicity

### Aspiration toxicity

#### Product:

No aspiration toxicity classification

## 11.2 Information on other hazards

### Further information

#### Product:

Remarks : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version	Revision Date:	SDS Number:	Date of last issue: 14.10.2020
1.9	18.08.2022	000000007116	Date of first issue: 22.11.2011

---

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

### 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.

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

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.

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## SECTION 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version 1.9      Revision Date: 18.08.2022      SDS Number: 000000007116      Date of last issue: 14.10.2020  
Date of first issue: 22.11.2011

---

### SECTION 14: Transport information

#### 14.1 UN number or ID number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3
- 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).
- REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable
- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version	Revision Date:	SDS Number:	Date of last issue: 14.10.2020
1.9	18.08.2022	000000007116	Date of first issue: 22.11.2011

---

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

**The components of this product are reported in the following inventories:**

DSL	:	All components of this product are on the Canadian DSL
AICS	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
ENCS	:	On the inventory, or 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
TCSI	:	Not in compliance with the inventory
US.TSCA	:	All substances listed as active on the TSCA inventory

### 15.2 Chemical safety assessment

No information available.

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## SECTION 16: Other information

### Full text of H-Statements

H302	:	Harmful if swallowed.
H317	:	May cause an allergic skin reaction.
H361f	:	Suspected of damaging fertility.
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.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Repr.	:	Reproductive toxicity



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL FG XL 100

Version	Revision Date:	SDS Number:	Date of last issue: 14.10.2020
1.9	18.08.2022	000000007116	Date of first issue: 22.11.2011

Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Classification of the mixture:

Aquatic Chronic 3 H412

### Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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