according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

ANDEROL FGCS-2

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.04.2018

 1.8
 05.10.2020
 000000031579
 Date of first issue: 10.09.2012

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

1.1 Product identifier

Trade name : ANDEROL FGCS-2

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

Use of the Sub- : Lubricant

stance/Mixture

Recommended restrictions

on use

For industrial use only.

1.3 Details of the supplier of the safety data sheet

:

Company: <u>Manufacturer</u>

Anderol Specialty Lubricants Groot Egtenrayseweg 23

5928 PA Venlo Netherlands

Telephone: +31-77 396 0340

Supplier

LANXESS Solutions UK Ltd. Tenax Road, Trafford Park

Manchester United Kingdom M17 1WT

Customer Service: +44 161 875 3800

Prepared by Product Safety Department

(US) +1 866-430-2775

Further information for the safety data sheet: MSDSRe-

quest@lanxess.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.

according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

ANDEROL FGCS-2

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.04.2018

 1.8
 05.10.2020
 000000031579
 Date of first issue: 10.09.2012

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling

EUH208 Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, Sulfonic

acids, petroleum, calcium salts, Benzenesulfonic acid, mono-C16-24-alkyl

derivs., calcium salts. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzenesulfonic acid, C10-16- alkyl derivs., calcium salts	68584-23-6 271-529-4 01-2119492627-25- 0001	Skin Sens. 1B; H317	>= 1 - < 10
calcium dodecylbenzenesulpho- nate	26264-06-2 247-557-8 01-2120122335-68- 0001	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 4; H413	>= 1 - < 2.5
Sulfonic acids, petroleum, calcium salts	61789-86-4 263-093-9 01-2119488992-18- 0001	Skin Sens. 1B; H317	>= 1 - < 10
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0 274-263-7 01-2119492616-28- 0004	Skin Sens. 1B; H317	>= 1 - < 10

For explanation of abbreviations see section 16.

according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

ANDEROL FGCS-2

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.04.2018

 1.8
 05.10.2020
 000000031579
 Date of first issue: 10.09.2012

SECTION 4: First aid measures

4.1 Description of 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 : Remove to fresh air.

Aspiration may cause pulmonary oedema and pneumonitis.

If breathing is difficult, give oxygen. If symptoms persist, call a physician.

In case of skin contact : Wash off with warm water and soap.

If skin irritation persists, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Obtain medical attention.

If swallowed : Obtain medical attention.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : irritant effects

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 : (on small fires)

Carbon dioxide (CO2)

Dry chemical Dry sand

Extinguishing media - large fires

Foam Water mist

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Do not use a solid water stream as it may scatter and spread

fire.

Burning produces irritant fumes.

Exposure to decomposition products may be a hazard to

health.

according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

ANDEROL FGCS-2

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.04.2018

 1.8
 05.10.2020
 000000031579
 Date of first issue: 10.09.2012

5.3 Advice for firefighters

Special protective equipment :

for firefighters

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

Use personal protective equipment.

Further information : Cool containers/tanks with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment.

6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.

Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Scrape up.

Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin, eyes and clothing.

Wear suitable protective equipment.

Keep tightly closed.

Protect from contamination.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not

eat or drink. When using do not smoke. Wash hands before

breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep tightly closed in a dry, cool and well-ventilated place.

Protect from contamination.

Further information on stor-

age conditions

Keep away from oxidizing agents.

Further information on stor-

age stability

Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : Raw material for industry

according to Regulation (EC) No. 1907/2006



ANDEROL FGCS-2

Version Revision Date: SDS Number: Date of last issue: 05.04.2018
1.8 05.10.2020 000000031579 Date of first issue: 10.09.2012

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Substance name	End Use	Exposure routes	Potential health effects	Value
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/m3
	General expo- sures	Skin contact	Chronic effects, Systemic effects	0.31 mg/kg
	General expo- sures	Inhalation	Chronic effects, Systemic effects	1.09 mg/m3
	General expo- sures	Ingestion	Chronic effects, Systemic effects	0.31 mg/kg
Sulfonic acids, petro- leum, calcium salts	Workers	Inhalation	Long-term systemic effects	11.75 mg/m3
	Workers	Dermal	Long-term systemic effects	3.33 mg/kg
	Workers	Dermal	Long-term local ef- fects	1.03 mg/cm2

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

Substance name	Environmental Compartment	Value
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Fresh water	0.051 mg/l
71	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
Sulfonic acids, petroleum, calcium salts	Fresh water	1 mg/l
	Marine water	1 mg/l
	Fresh water sediment	226000000
		mg/kg
	Marine sediment	226000000
		mg/kg
	Soil	271000000
		mg/kg
	Sewage treatment plant	1000 mg/l

according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

ANDEROL FGCS-2

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.04.2018

 1.8
 05.10.2020
 000000031579
 Date of first issue: 10.09.2012

8.2 Exposure controls

Engineering measures

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye protection : Safety glasses with side-shields

Of

Tightly fitting safety goggles

Hand protection

Remarks : Neoprene gloves

Skin and body protection : Impervious clothing

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

In the case of dust or aerosol formation use respirator with an

approved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : paste

Colour : tan

Odour : mild, hydrocarbon-like

Odour Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : > 180 °C

Method: open cup

Evaporation rate : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : 0.95 - 1.05 (25 °C)

according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

ANDEROL FGCS-2

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.04.2018

 1.8
 05.10.2020
 000000031579
 Date of first issue: 10.09.2012

Solubility(ies)

Water solubility : negligible

Solubility in other solvents : partly soluble

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : not determined

Viscosity

Viscosity, kinematic : Not applicable

9.2 Other information

Self-Accelerating decomposi-

tion temperature (SADT)

Method: No information available.

Oxidizing potential : No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Conditions to avoid : Contamination

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

Carbon oxides Sulphur oxides Oxides of calcium

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

ANDEROL FGCS-2

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.04.2018

 1.8
 05.10.2020
 000000031579
 Date of first issue: 10.09.2012

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

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

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

Components:

calcium dodecylbenzenesulphonate:

Acute oral toxicity : LD50 Oral (Rat): 1,300 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 4,199 mg/kg

Remarks: Information given is based on data obtained from

similar substances.

Sulfonic acids, petroleum, calcium salts:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 4,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Product:

Result : No skin irritation

Remarks : Information given is based on data obtained from similar sub-

stances.

Components:

calcium dodecylbenzenesulphonate:

Species : Rabbit Exposure time : 4 h

Result : Skin irritation

Remarks : Information given is based on data obtained from similar sub-

stances.

Serious eye damage/eye irritation

Product:

Result : No eye irritation

Remarks : Information given is based on data obtained from similar sub-

stances.

Components:

calcium dodecylbenzenesulphonate:

Species : Rabbit

according to Regulation (EC) No. 1907/2006

LANXESS Energizing Chemistry

ANDEROL FGCS-2

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.04.2018

 1.8
 05.10.2020
 000000031579
 Date of first issue: 10.09.2012

Result : Risk of serious damage to eyes.

Remarks : Information given is based on data obtained from similar sub-

stances.

Respiratory or skin sensitisation

Product:

Result : Does not cause skin sensitisation.

Remarks : Information given is based on data obtained from similar sub-

stances.

Components:

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Result : Probability or evidence of low to moderate skin sensitisation

rate in humans

Sulfonic acids, petroleum, calcium salts:

Result : Probability or evidence of low to moderate skin sensitisation

rate in humans

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Result : Probability or evidence of low to moderate skin sensitisation

rate in humans

Germ cell mutagenicity

Product:

Germ cell mutagenicity- As-

sessment

: Not classified due to lack of data.

Carcinogenicity

Product:

Carcinogenicity - Assess-

ment

: Not classified due to lack of data.

Reproductive toxicity

Product:

Reproductive toxicity - As-

sessment

: Not classified due to lack of data.

STOT - single exposure

Product:

Assessment : Not classified due to lack of data.

according to Regulation (EC) No. 1907/2006

Energizing Chemistry

ANDEROL FGCS-2

Date of last issue: 05.04.2018 Version Revision Date: SDS Number: 000000031579 Date of first issue: 10.09.2012 1.8 05.10.2020

STOT - repeated exposure

Product:

Assessment : Not classified due to lack of data.

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:

Remarks : There is no data available for this product.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data is available on the product itself.

aquatic invertebrates

Toxicity to daphnia and other : Remarks: No data is available on the product itself.

Components:

calcium dodecylbenzenesulphonate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 22 mg/l

> Exposure time: 96 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 203

GLP: no

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.5 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: no

Remarks: Information given is based on data obtained from

similar substances.

Sulfonic acids, petroleum, calcium salts:

Toxicity to fish LC50 (Cyprinodon variegatus (sheepshead minnow)): >

10,000 mg/l

Exposure time: 96 h Test Type: static test

according to Regulation (EC) No. 1907/2006



ANDEROL FGCS-2

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.04.2018

 1.8
 05.10.2020
 000000031579
 Date of first issue: 10.09.2012

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EbC50 (Green algae (Scenedesmus subspicatus)): > 100 mg/l

Exposure time: 72 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability : Result: No data available

Components:

calcium dodecylbenzenesulphonate:

Biodegradability : Concentration: 10 mg/l

Result: Readily biodegradable.

Kinetic: 28 d: 73 %

Remarks: Information given is based on data obtained from

similar substances.

Sulfonic acids, petroleum, calcium salts:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge

Result: Not readily biodegradable.

Biodegradation: 8.6 % Exposure time: 28 d

GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

calcium dodecylbenzenesulphonate:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Exposure time: 21 d

Bioconcentration factor (BCF): 104

GLP: no

according to Regulation (EC) No. 1907/2006



ANDEROL FGCS-2

Version SDS Number: Date of last issue: 05.04.2018 Revision Date: 000000031579 Date of first issue: 10.09.2012 1.8 05.10.2020

Partition coefficient: n-: Pow: 4.77 (25 °C)

octanol/water Method: Calculated value

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 Other adverse effects

Product:

mation

Additional ecological infor- : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN 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

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

according to Regulation (EC) No. 1907/2006

Energizing Chemistry

ANDEROL FGCS-2

Date of last issue: 05.04.2018 Version Revision Date: SDS Number: Date of first issue: 10.09.2012 1.8 05.10.2020 000000031579

SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC) Neither banned nor restricted Schedules of Toxic Chemicals and Precursors

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation (Annex XIV)

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Neither banned nor restricted

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

Article 57).

Neither banned nor restricted

Neither banned nor restricted

Not applicable

: Neither banned nor restricted

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 On the inventory, or 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 On the inventory, or in compliance with the inventory

according to Regulation (EC) No. 1907/2006



ANDEROL FGCS-2

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.04.2018

 1.8
 05.10.2020
 000000031579
 Date of first issue: 10.09.2012

US.TSCA : On TSCA Inventory

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed. H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

H413 : May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Sub-

according to Regulation (EC) No. 1907/2006



ANDEROL FGCS-2

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 05.04.2018

 1.8
 05.10.2020
 000000031579
 Date of first issue: 10.09.2012

stances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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.

REG_EU / EN