

# SAFETY DATA SHEET



## ANDEROL FGCS-2

Version: 1.11

Revision Date: 07/11/2018

Print Date: 07/18/2019

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ANDEROL FGCS-2

Product Use Description: Lubricant

Synonyms: Calcium Sulfonate grease

Company: Manufacturer  
Anderol Specialty Lubricants  
Groot Egtenrayseweg 23  
5928 PA Venlo  
Netherlands

Telephone: +31-77 396 0340

Supplier  
LANXESS Solutions US Inc.  
215 Merry Lane  
East Hanover, NJ  
07936  
United States of America (USA)

Telephone: 973-887-7410

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300  
:  
: US : 800-292-5898 (Technical inquiries)

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department  
(US) +1 866-430-2775

MSDSRequest@lanxess.com

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : For industrial use only.

### SECTION 2. HAZARDS IDENTIFICATION

Form	paste
Colour	tan
Odour	mild hydrocarbon-like

#### GHS Classification

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Not a hazardous substance or mixture.

### GHS label elements

Other hazards : None

Not a hazardous substance or mixture.

### Carcinogenicity:

#### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous components

Chemical name	CAS-No.	Concentration (%)
Petroleum products		>= 10 - < 20 %
NJTS# 136411-5553P Calcium salt		>= 10 - < 20 %
NJTS: 136411-5558P Sulfomate		>= 1 - < 5 %
calcium dodecylbenzenesulphonate	26264-06-2	>= 1 - < 3 %
NJTS-46728100000-0001		>= 1 - < 2.5 %
NJTS: 136411-5414P		>= 1 - < 5 %
NJTS: 136411-5412P		>= 1 - < 5 %

## SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air.

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- 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.
- Most important symptoms and effects, both acute and delayed : irritant effects
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : (on small fires)  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Dry sand  
Extinguishing media - large fires  
Foam  
Water mist
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : 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.
- Specific extinguishing methods : Cool containers/tanks with water spray.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
- Environmental precautions : Should not be released into the environment.  
Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Scrape up. Pick up and transfer to properly labelled containers.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with skin, eyes and clothing.  
Wear suitable protective equipment.  
Keep tightly closed.  
Protect from contamination.
- Conditions for safe storage : Keep tightly closed in a dry, cool and well-ventilated place.  
Protect from contamination.
- Materials to avoid : Oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Petroleum products		TWA	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA P0
		PEL (particulate)	5 mg/m <sup>3</sup>	CAL PEL
NJTS# 136411-5553P Calcium salt		PEL (Total dust)	10 mg/m <sup>3</sup>	CAL PEL
		PEL (respirable)	5 mg/m <sup>3</sup>	CAL PEL

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		dust fraction)		
		TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL

**Engineering measures** : Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

**Respiratory protection** : No personal respiratory protective equipment normally required.  
In the case of dust or aerosol formation use respirator with an approved filter.

**Hand protection**  
**Remarks** : Neoprene gloves

**Eye protection** : Safety glasses with side-shields  
or  
Tightly fitting safety goggles

**Skin and body protection** : Impervious clothing

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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : paste

**Color** : tan

**Odor** : 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

**Evaporation rate** : Not applicable

**Flash point** : > 180 °C  
Method: open cup

**Upper explosion limit** : No data available

**Lower explosion limit** : No data available

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Vapour pressure : Not applicable  
Relative vapour density : Not applicable  
Relative density : 0.95 - 1.05 (25 °C)

### 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

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : Hazardous polymerisation does not occur.  
Conditions to avoid : Contamination  
Incompatible materials : Oxidizing agents  
Hazardous decomposition products : Carbon oxides  
Sulphur oxides  
Oxides of calcium

## SECTION 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity**

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method  
Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

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Method: Calculation method

### Components:

#### **NJTS# 136411-5553P Calcium salt:**

Acute oral toxicity : LD50 (Rat): 6,450 mg/kg

#### **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.

#### **NJTS-46728100000-0001:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

#### **NJTS: 136411-5414P:**

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 substances.

### Components:

#### **NJTS# 136411-5553P Calcium salt:**

Species: Rabbit

Result: No skin irritation

#### **calcium dodecylbenzenesulphonate:**

Species: Rabbit

Exposure time: 4 h

Result: Skin irritation

Remarks: Information given is based on data obtained from similar substances.

#### **NJTS-46728100000-0001:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

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### Serious eye damage/eye irritation

#### Product:

Result: No eye irritation

Remarks: Information given is based on data obtained from similar substances.

#### Components:

##### **NJTS# 136411-5553P Calcium salt:**

Species: Rabbit

Result: No eye irritation

##### **calcium dodecylbenzenesulphonate:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Remarks: Information given is based on data obtained from similar substances.

##### **NJTS-46728100000-0001:**

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

### Respiratory or skin sensitisation

#### Product:

Result: Does not cause skin sensitisation.

Remarks: Information given is based on data obtained from similar substances.

#### Components:

##### **NJTS: 136411-5558P Sulfomate:**

Result: Probability or evidence of low to moderate skin sensitisation rate in humans

##### **NJTS-46728100000-0001:**

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

##### **NJTS: 136411-5414P:**

Result: Probability or evidence of low to moderate skin sensitisation rate in humans

##### **NJTS: 136411-5412P:**

Result: Probability or evidence of low to moderate skin sensitisation rate in humans

### Germ cell mutagenicity

#### Components:

##### **NJTS-46728100000-0001:**

Germ cell mutagenicity - : Not mutagenic in Ames Test

Assessment

### Carcinogenicity

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### OSHA

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### NTP

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### Reproductive toxicity

#### Components:

#### **NJTS# 136411-5553P Calcium salt:**

Effects on fertility :  
Species: Rat  
Application Route: Oral

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

### Aspiration toxicity

#### Product:

No aspiration toxicity classification

### Further information

#### Product:

Remarks: There is no data available for this product.

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## SECTION 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

#### Product:

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

Toxicity to daphnia and other :  
aquatic invertebrates : 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 : EC50 (Daphnia magna (Water flea)): 2.5 mg/l  
aquatic invertebrates : 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.

##### **NJTS-46728100000-0001:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 71 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 51 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EbC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

##### **NJTS: 136411-5414P:**

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

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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 : 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

ErC50 (Green algae (Scenedesmus subspicatus)): > 100 mg/l  
Exposure time:  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes

### Persistence and degradability

#### Product:

Biodegradability : Result: No data available

#### Components:

##### **calcium dodecylbenzenesulphonate:**

Biodegradability : Concentration: 10 mg/l  
Result: Readily biodegradable.  
Testing period: 28 d  
Kinetic:  
28 d: 73 %  
Remarks: Information given is based on data obtained from similar substances.

##### **NJTS-46728100000-0001:**

Biodegradability : Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Method: CO2 Evolution Test

##### **NJTS: 136411-5414P:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 8.6 %  
Exposure time: 28 d  
GLP: yes

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### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### calcium dodecylbenzenesulphonate:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 104  
Exposure time: 21 d  
GLP: no

Partition coefficient: n-octanol/water : Pow: 4.77 (77 °F / 25 °C)  
Method: calculated

##### NJTS-46728100000-0001:

Partition coefficient: n-octanol/water : log Pow: > 7

### Mobility in soil

#### Product:

Mobility : Remarks: No data available

### Other adverse effects

#### Product:

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

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

#### Components:

##### NJTS-46728100000-0001:

Additional ecological information : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Do not allow material to contaminate ground water system.  
Do not flush into surface water or sanitary sewer system.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : In accordance with local and national regulations.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### National Regulations

##### 49 CFR

Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
calcium dodecylbenzenesulphonate	26264-06-2	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

##### SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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### US State Regulations

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.**

**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
US.TSCA	On TSCA Inventory

### SECTION 16. OTHER INFORMATION

#### Further information

#### Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

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.