



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



ANDEROL FGCS-2

Version 1.2

Revision Date 07.01.2015

Print Date 21.01.2015

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 Substance/Mixture : Lubricant
Recommended restrictions on use : For industrial use only.

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

Customer Service: +44 161 875 3800
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)

Eye irritation, Category 2

H319: Causes serious eye irritation.

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising

R43: May cause sensitisation by skin contact.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

: Warning

Hazard statements

: H317
H319

May cause an allergic skin reaction.
Causes serious eye irritation.

Supplemental Hazard
Statements

:

Precautionary statements

: **Prevention:**
P261

Avoid breathing dust/ fume/ gas/ mist/
vapours/ spray.

P280

Wear protective gloves/ eye protection/ face
protection.

Response:

P333 + P313

If skin irritation or rash occurs: Get medical
advice/ attention.

P337 + P313

If eye irritation persists: Get medical advice/
attention.

P362 + P364

Take off contaminated clothing and wash it
before reuse.

Hazardous components which must be listed on the label:

- 68584-23-6 Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts
- 61789-86-4 Sulfonic acids, petroleum, calcium salts
- 70024-69-0 Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

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2.3 Other hazards

Do not handle until all safety precautions have been read and understood.

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 [%]
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6 271-529-4	Xi; R43	Skin Sens. 1B; H317	>= 1 - < 10
calcium dodecylbenzenesulphonate	26264-06-2 247-557-8	Xi; R38-R41	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 3
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1 270-128-1	R52/53	Aquatic Chronic 3; H412	>= 1 - < 10
Sulfonic acids, petroleum, calcium salts	61789-86-4 263-093-9	Xi; R43	Skin Sens. 1B; H317	>= 1 - < 10
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0 274-263-7	Xi; R43	Skin Sens. 1B; H317	>= 1 - < 10

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

- 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.

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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
Sensitisation

4.3 Indication of any immediate medical attention and special treatment needed

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

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 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.

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment.

6.2 Environmental precautions

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Environmental precautions : Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials 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.

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.

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 storage conditions : Keep away from oxidizing agents.

Other data : Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : Raw material for industry

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
calcium carbonate (Dust)	471-34-1	TWA	10 mg/m ³	2011-12-01	GB EH40
		TWA	4 mg/m ³	2011-12-01	GB EH40

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Components	CAS-No.	Value	Control parameters	Update	Basis
calcium carbonate (Dust)	471-34-1	TWA	10 mg/m ³	2011-12-01	GB EH40
		TWA	4 mg/m ³	2011-12-01	GB EH40

DNEL

Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene

: End Use: Workers
Exposure routes: Skin contact
Potential health effects: Chronic effects, Systemic effects
Value: 0.62 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Chronic effects, Systemic effects
Value: 4.37 mg/m³

End Use: General exposures
Exposure routes: Skin contact
Potential health effects: Chronic effects, Systemic effects
Value: 0.31 mg/kg

End Use: General exposures
Exposure routes: Inhalation
Potential health effects: Chronic effects, Systemic effects
Value: 1.09 mg/m³

End Use: General exposures
Exposure routes: Ingestion
Potential health effects: Chronic effects, Systemic effects
Value: 0.31 mg/kg

PNEC

Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene

: Fresh water
Value: 0.051 mg/l

Marine water
Value: 0.0051 mg/l

Fresh water sediment
Value: 9320 mg/kg

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Marine sediment
Value: 932 mg/kg

Soil
Value: 1860 mg/kg

STP
Value: 1 mg/l

8.2 Exposure controls

Engineering measures

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

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Respirator with combination filter for vapour/particulate (EN 141).

Hand protection : Impervious 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.

Environmental exposure controls

General advice : Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : paste

Colour : tan

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Odour : mild, hydrocarbon-like
Odour Threshold : No information available.
Flash point : > 180 °C

Method: open cup

Ignition temperature :
not determined

Lower explosion limit : No data available

Upper explosion limit : No data available
Flammability (solid, gas) : No information available.
Auto-ignition temperature : No information available.
pH : No information available.
Melting point/range : Note: No data available

Boiling point/boiling range : Note: No data available

Vapour pressure : No information available.
Density : No information available.
Relative density : 0.95 - 1.05
at 25 °C

Water solubility :
negligible

Partition coefficient: n-
octanol/water : Pow:
log Pow:
No data available

Solubility in other solvents :
partly soluble

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

9.2 Other information

Oxidising potential : Note: No information available.

10. Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

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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

Hazardous decomposition products : Carbon oxides
Sulphur oxides
Oxides of calcium

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
Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : LD50: > 2,000 mg/kg
Species: Rat
Method: OECD Test Guideline 401

Sulfonic acids, petroleum,
calcium salts : LD50: > 5,000 mg/kg
Species: Rat
Method: OECD Test Guideline 401

Benzenesulfonic acid, mono-
C16-24-alkyl derivs., calcium
salts : LD50: > 5,000 mg/kg
Species: Rat
Method: OECD Test Guideline 401

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
calcium
dodecylbenzenesulphonate : LD50: > 4,199 mg/kg
Species: Rabbit
Remarks: Information given is based on data obtained from
similar substances.

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Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : LD50: > 2,000 mg/kg
Species: Rat

Sulfonic acids, petroleum,
calcium salts : LD50: > 4,000 mg/kg
Species: Rabbit
Method: OECD Test Guideline 402

Benzenesulfonic acid, mono-
C16-24-alkyl derivs., calcium
salts : LD50: > 2,000 mg/kg
Species: Rat
Method: OECD Test Guideline 402

Skin corrosion/irritation

Skin irritation : Remarks: Not classified due to lack of data.

Skin irritation
calcium : Species: Rabbit
dodecylbenzenesulphonate Result: Skin irritation
Exposure time: 4 h
Remarks: Information given is based on data obtained from
similar substances.

Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

Serious eye damage/eye irritation

Eye irritation : Result: Irritating to eyes.

Eye irritation
calcium : Species: Rabbit
dodecylbenzenesulphonate Result: Risk of serious damage to eyes.
Remarks: Information given is based on data obtained from
similar substances.

Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Sensitisation : Remarks: May cause sensitisation by skin contact.

Sensitisation
Benzenesulfonic acid, C10-
16-alkyl derivs., calcium salts : Result: Probability or evidence of low to moderate skin
sensitisation rate in humans

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Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : Species: Guinea pig
Classification: Did not cause sensitisation on laboratory
animals.
Method: OECD Test Guideline 406

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

Mutagenicity Assessment

Remarks : Not classified due to lack of data.

Carcinogenicity Assessment

Remarks : Not classified due to lack of data.

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 : There is no data available for this product.

12. Ecological information

12.1 Toxicity

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

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Toxicity to fish

calcium
dodecylbenzenesulphonate : LC50: 22 mg/l
Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)
static test Analytical monitoring: no
Method: OECD Test Guideline 203
Remarks:
Information given is based on data obtained from similar
substances.

Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : LC50: > 71 mg/l
Exposure time: 96 h

Species: Danio rerio (zebra fish)
Method: OECD Test Guideline 203

Sulfonic acids, petroleum,
calcium salts : LC50: > 10,000 mg/l
Exposure time: 96 h

Species: Cyprinodon variegatus (sheepshead minnow)
static test Method: OECD Test Guideline 203

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

Toxicity to daphnia and other aquatic invertebrates

calcium
dodecylbenzenesulphonate : EC50: 2.5 mg/l
Exposure time: 48 h

Species: Daphnia magna (Water flea)
static test Method: OECD Test Guideline 202
Remarks:
Information given is based on data obtained from similar
substances.

Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : EC50: 51 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Sulfonic acids, petroleum,
calcium salts : EC50: > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
static test Method: OECD Test Guideline 202

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12.2 Persistence and degradability

Biodegradability : Result: No data available

Biodegradability
calcium
dodecylbenzenesulphonate : Result: Readily biodegradable.
Testing period: 28 d
Remarks:
Information given is based on data obtained from similar
substances.

Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : Result: According to the results of tests of biodegradability this
product is not readily biodegradable.
Method: CO2 Evolution Test

Sulfonic acids, petroleum,
calcium salts : aerobic
Result: Not readily biodegradable.
8.6 %

Benzenesulfonic acid, mono-
C16-24-alkyl derivs., calcium
salts : aerobic
Result: According to the results of tests of biodegradability this
product is not readily biodegradable.
8 %
Method: OECD Test Guideline 301

12.3 Bioaccumulative potential

Bioaccumulation : Remarks:
No data available

Bioaccumulation
calcium
dodecylbenzenesulphonate : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 21 d
Bioconcentration factor (BCF): 104

12.4 Mobility in soil

Mobility : Remarks:
No data available

12.5 Results of PBT and vPvB 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.

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12.6 Other adverse effects

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

Additional ecological information
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene : 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.

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts : May cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.

14. Transport information

ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

15. Regulatory information

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

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).

Major Accident Hazard : 96/82/EC Update: 2003

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Legislation Directive 96/82/EC does not apply

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

Notification status

US.TSCA : On TSCA Inventory
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
CH INV : The formulation contains substances listed on the Swiss
Inventory

15.2 Chemical Safety Assessment

No information available.

16. Other information

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

R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
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.

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Further information

Carechem24 International Worldwide Coverage

Emergency Phone Number

Europe:	All European Countries	+44 (0) 1235 239 670 (NCEC)
Asia Pacific:	East / South East Asia – Regional Number	+65 3158 1074

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	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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