

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ANDEROL FGCS-2

Version	Revision Date:	SDS Number:	Date of last issue: 04.10.2022
2.0	23.11.2022	000000031579	Date of first issue: 10.09.2012

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### 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-  
stance/Mixture : Lubricant

Recommended restrictions : For industrial use only.  
on use

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

Company:

Manufacturer  
Anderol Specialty Lubricants  
Groot Egtenrayseweg 23  
5928 PA Venlo  
Netherlands

Telephone : +31-77 396 0340

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

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)

Not a hazardous substance or mixture.

#### 2.2 Label elements

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

Not a hazardous substance or mixture.

##### Additional Labelling

EUH210      Safety data sheet available on request.

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

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)
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6 271-529-4 01-2119492627-25-0001	Skin Sens. 1B; H317 <hr/> specific concentration limit Skin Sens. 1B; H317 10 - 100 %	>= 1 - < 10

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calcium dodecylbenzenesulphonate	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
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1 270-128-1 01-2119491299-23-0002	Repr. 2; H361f	>= 1 - < 3
Sulfonic acids, petroleum, calcium salts	61789-86-4 263-093-9 01-2119488992-18-0001	Skin Sens. 1B; H317 ————— specific concentration limit Skin Sens. 1B; H317 10 - 100 %	>= 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 ————— specific concentration limit Skin Sens. 1B; H317 10 - 100 %	>= 0,1 - < 1
Substances with a workplace exposure limit :			
White mineral oil (petroleum)	8042-47-5 232-455-8		>= 50 - < 70
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7 265-174-4 649-477-00-2		>= 1 - < 10
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0 265-169-7 649-474-00-6		>= 1 - < 10

For explanation of abbreviations see section 16.

### 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.

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- 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 : No symptoms known or expected.
- Risks : No information available.

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

- Treatment : For specialist advice physicians should contact the Poisons  
Information Service.  
The first aid procedure should be established in consultation  
with the doctor responsible for industrial medicine.  
Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-  
cumstances and the surrounding environment.  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Sand  
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.

### 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.

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### 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., For disposal considerations see section 13.

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### 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.

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

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.

Dust explosion class : No data available

#### 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.

Further information on storage stability : Stable under recommended storage conditions.

#### 7.3 Specific end use(s)

Specific use(s) : Raw material for industry

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
White mineral oil (petroleum)	8042-47-5	TWA (Vapour)	50 mg/m <sup>3</sup>	FOR-2011-12-06-1358
		TWA (Mist and particles)	1 mg/m <sup>3</sup>	FOR-2011-12-06-1358
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7	TWA (Vapour)	50 mg/m <sup>3</sup>	FOR-2011-12-06-1358
		TWA (Mist and particles)	1 mg/m <sup>3</sup>	FOR-2011-12-06-1358
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	TWA	40 ppm 275 mg/m <sup>3</sup>	FOR-2011-12-06-1358
		TWA (Vapour)	50 mg/m <sup>3</sup>	FOR-2011-12-06-1358
		TWA (Mist and particles)	1 mg/m <sup>3</sup>	FOR-2011-12-06-1358

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

Substance name	End Use	Exposure routes	Potential health effects	Value
calcium carbonate	Workers	Inhalation	Long-term local effects	6,36 mg/m <sup>3</sup>
	General exposures	Inhalation	Long-term local effects	1,06 mg/m <sup>3</sup>
	General exposures	Oral	Long-term systemic effects	6,1 mg/kg bw/day
Distillates (petroleum), solvent-dewaxed heavy paraffinic	General exposures	Oral	Acute systemic effects	6,1 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	2,7 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	5,6 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	1 mg/kg bw/day
	General exposures	Oral	Long-term systemic effects	0,74 mg/kg bw/day
calcium dodecylbenzenesulphonate	Workers	Inhalation	Long-term systemic effects	52 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	52 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	52 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	52 mg/m <sup>3</sup>

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	Workers	Dermal	Long-term systemic effects	57,2 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	80 mg/kg bw/day
	Workers	Dermal	Long-term local effects	1,57 mg/cm <sup>2</sup>
	Workers	Dermal	Acute local effects	1,57 mg/cm <sup>2</sup>
	General exposures	Inhalation	Long-term systemic effects	26 mg/m <sup>3</sup>
	General exposures	Inhalation	Acute systemic effects	26 mg/m <sup>3</sup>
	General exposures	Inhalation	Long-term local effects	26 mg/m <sup>3</sup>
	General exposures	Inhalation	Acute local effects	26 mg/m <sup>3</sup>
	General exposures	Dermal	Long-term systemic effects	28,6 mg/kg bw/day
	General exposures	Dermal	Acute systemic effects	40 mg/kg bw/day
	General exposures	Dermal	Long-term local effects	0,787 mg/cm <sup>2</sup>
	General exposures	Dermal	Acute local effects	0,787 mg/cm <sup>2</sup>
	General exposures	Oral	Long-term systemic effects	13 mg/kg bw/day
	General exposures	Oral	Acute systemic effects	13 mg/kg bw/day
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
Sulfonic acids, petroleum, calcium salts	Workers	Inhalation	Long-term systemic effects	11,75 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	3,33 mg/kg
	Workers	Dermal	Long-term local effects	1,03 mg/cm <sup>2</sup>

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

Substance name	Environmental Compartment	Value
calcium carbonate	Sewage treatment plant	100 mg/l
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Secondary Poisoning	9,33 mg/kg food
calcium dodecylbenzenesulpho-	Fresh water	0,28 mg/l

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nate		
	Marine water	0,458 mg/l
	Sewage treatment plant	50 mg/l
	Fresh water sediment	27,5 mg/kg
	Marine sediment	2,75 mg/kg
	Soil	25 mg/kg dry weight (d.w.)
	Secondary Poisoning	20 mg/kg food
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
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

### 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  
or  
Tightly fitting safety goggles
- Hand protection  
Material : Neoprene gloves
- Remarks : 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. Request information on glove permeation properties from the glove supplier.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Impervious clothing
- Respiratory protection : No personal respiratory protective equipment normally required.
- Protective measures : These recommendations apply to the product as supplied.



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Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. Also have on hand a treatment kit for use by the medical staff. Its content must be prescribed by the physician.

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### SECTION 9: Physical and chemical properties

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

Physical state	:	paste
Colour	:	tan
Odour	:	mild, hydrocarbon-like
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 180 °C Method: open cup
Auto-ignition temperature	:	not determined
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	Method: No information available.
pH	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	Not applicable
Solubility(ies)		
Water solubility	:	negligible
Solubility in other solvents	:	partly soluble

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Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	Not applicable
Relative density	:	0,95 - 1,05 (25 °C)
Density	:	No data available
Relative vapour density	:	Not applicable

### 9.2 Other information

Explosives	:	No data available
Oxidizing properties	:	No data available
Flammable solids Burning number	:	No data available
Self-ignition	:	No data available
Self-heating substances	:	No data available
Dust explosion class	:	No data available
Evaporation rate	:	Not applicable
Oxidizing potential	:	No information available.

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## 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.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Contamination
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### 10.5 Incompatible materials

Materials to avoid	:	Oxidizing agents
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### 10.6 Hazardous decomposition products

Carbon oxides  
Sulphur oxides  
Oxides of calcium

## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified based on available information.

#### 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.

##### 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.

##### 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): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Result : No skin irritation  
Remarks : Information given is based on data obtained from similar substances.

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### Components:

#### **calcium dodecylbenzenesulphonate:**

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

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

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

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

Not classified based on available information.

### Product:

Result : No eye irritation  
Remarks : Information given is based on data obtained from similar substances.

### Components:

#### **calcium dodecylbenzenesulphonate:**

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

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

Not classified based on available information.

##### **Respiratory sensitisation**

Not classified based on available information.

### Product:

Result : Does not cause skin sensitisation.  
Remarks : Information given is based on data obtained from similar substances.

### Components:

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

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

### **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

### **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**

Not classified based on available information.

### **Components:**

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

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

### **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  
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,

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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.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

### Product:

No aspiration toxicity classification

## 11.2 Information on other hazards

### Further information

### Product:

Remarks : The product itself has not been tested.

## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

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### 12.2 Persistence and degradability

**Product:**

Biodegradability : Result: No data available

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: 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.  
This product has no known ecotoxicological effects.  
The product itself has not been tested.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.

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

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### 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

Not applicable

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

Not applicable for product as supplied.

### 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, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:

**REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)** : Distillates (petroleum), solvent-dewaxed heavy paraffinic (Number on list 28)

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Neither banned nor restricted

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) : Neither banned nor restricted

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Neither banned nor restricted

Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable



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tants (recast)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : 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:

**TCSI** : On the inventory, or in compliance with the inventory

**US.TSCA** : All substances listed as active on the TSCA inventory

**AIIC** : On the inventory, or in compliance with the inventory

**DSL** : All components of this product are on the Canadian DSL

**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

**NZIoC** : On the inventory, or in compliance with the inventory

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.

### 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.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H361f	:	Suspected of damaging fertility.
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
Repr.	:	Reproductive toxicity
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
FOR-2011-12-06-1358	:	Norway. Occupational Exposure limits
FOR-2011-12-06-1358 / TWA	:	Long term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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

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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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