

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ANDEROL 86 EP2

Version 1.0      Revision Date: 21.06.2023      SDS Number: 203000014609      Date of last issue: -  
Country / Language: DE / 6N (EN)

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

#### 1.1 Product identifier

Trade name : ANDEROL 86 EP2  
Product code : 000000000062597579

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

Use of the Substance/Mixture : Lubricant  
Recommended restrictions on use : Restricted to professional users.

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

Company : Anderol B.V.  
Groot Egtenrayseweg 23  
5928 PA Venlo  
Netherlands  
+31 77 396 0340  
Responsible Department : +49 221 8885 2288  
infosds@lanxess.com

#### 1.4 Emergency telephone number

Emergency telephone number : For 24/7 multilingual emergency please call  
CHEMTREC EMEA: +44 20 3885 0382 and mention CCN  
1001748.

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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)**  
No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### **Additional Labelling**

EUH210      Safety data sheet available on request.

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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.

### 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	Skin Sens. 1B; H317	>= 1 - < 10
calcium dodecylbenzenesulphonate	26264-06-2 247-557-8 01-2119560592-37	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 4; H413  Acute toxicity estimate  Acute oral toxicity: 1.300 mg/kg	>= 1 - < 2,5
Sulfonic acids, petroleum, calcium salts	61789-86-4 263-093-9 01-2119488992-18	Skin Sens. 1B; H317	>= 1 - < 10
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0 274-263-7 01-2119492616-28	Skin Sens. 1B; H317	>= 1 - < 10
Substances with a workplace exposure limit :			
Residual oils (petroleum,) solvent-refined; Baseoil — unspecified	64742-01-4 265-101-6		>= 10 - < 20

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	649-459-00-4		
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	64742-65-0 265-169-7 649-474-00-6 01-2119471299-27		>= 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.
- In case of skin contact : Wash off with warm water and soap. If skin irritation persists, call a physician. Cool skin rapidly with cold water after contact with molten material.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
- If swallowed : Do NOT induce vomiting. 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. See Section 11 for more detailed information on health effects and symptoms. Get medical attention if symptoms appear.
- 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 circumstances 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 : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.

Hazardous combustion products : Metal oxides  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Sulphur oxides

#### 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 : Dam up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Pick up and transfer to properly labelled containers.

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### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
Wear suitable protective equipment.  
Avoid contact with skin, eyes and clothing.  
Keep tightly closed.  
Protect from contamination.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. Avoid breathing vapours, mist or gas. Use only with adequate ventilation.
- 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.
- Further information on storage conditions : Keep away from oxidizing agents.
- Storage class (TRGS 510) : 11, Combustible Solids
- Further information on storage stability : Stable under recommended storage conditions.

### 7.3 Specific end use(s)

- Specific use(s) : Raw material for industry

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Residual oils (petroleum,) solvent-	64742-01-4	AGW (Vapour and aerosols)	5 mg/m <sup>3</sup>	DE TRGS 900

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refined; Baseoil — unspecified				
	Peak-limit: excursion factor (category): 4;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	64742-65-0	AGW (Vapour and aerosols)	5 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit: excursion factor (category): 4;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Sulfonic acids, petroleum, calcium salts	61789-86-4	AGW (Alveolate fraction)	5 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit: excursion factor (category): 4;(II)			

### 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 exposure, Local effects	6,36 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term exposure, Local effects	1,06 mg/m <sup>3</sup>
	Consumers	Oral	Long-term exposure, Systemic effects	6,1 mg/kg bw/day
	Consumers	Oral	Short-term exposure, Systemic effects	6,1 mg/kg bw/day
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	Workers	Inhalation	Long-term exposure, Systemic effects	2,7 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term exposure, Local effects	5,6 mg/m <sup>3</sup>
	Workers	Dermal	Long-term exposure, Systemic effects	1 mg/kg bw/day
	Consumers	Oral	Long-term exposure, Systemic effects	0,74 mg/kg bw/day
calcium dodecylbenzenesulphonate	Workers	Inhalation	Long-term exposure, Systemic effects	52 mg/m <sup>3</sup>
	Workers	Inhalation	Short-term exposure, Systemic effects	52 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term exposure, Local effects	52 mg/m <sup>3</sup>
	Workers	Inhalation	Short-term exposure, Local effects	52 mg/m <sup>3</sup>
	Workers	Dermal	Systemic effects, Long-term exposure	57,2 mg/kg bw/day
Workers	Dermal	Short-term exposure,	80 mg/kg	

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			Systemic effects	bw/day
	Workers	Dermal	Long-term exposure, Local effects	1,57 mg/cm <sup>2</sup>
	Workers	Dermal	Short-term exposure, Local effects	1,57 mg/cm <sup>2</sup>
	Consumers	Inhalation	Long-term exposure, Systemic effects	26 mg/m <sup>3</sup>
	Consumers	Inhalation	Short-term exposure, Systemic effects	26 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term exposure, Local effects	26 mg/m <sup>3</sup>
	Consumers	Inhalation	Short-term exposure, Local effects	26 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term exposure, Systemic effects	28,6 mg/kg bw/day
	Consumers	Dermal	Short-term exposure, Systemic effects	40 mg/kg bw/day
	Consumers	Dermal	Long-term exposure, Local effects	0,787 mg/cm <sup>2</sup>
	Consumers	Dermal	Short-term exposure, Local effects	0,787 mg/cm <sup>2</sup>
	Consumers	Oral	Long-term exposure, Systemic effects	13 mg/kg bw/day
	Consumers	Oral	Short-term exposure, Systemic effects	13 mg/kg bw/day
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/kg

### 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; Baseoil — unspecified	Secondary Poisoning	9,33 mg/kg food
calcium dodecylbenzenesulphonate	Fresh water	0,28 mg/l
	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
	Air	10 mg/m <sup>3</sup>
	Soil	25 mg/kg dry weight (d.w.)
	Secondary Poisoning	20 mg/kg food
Sulfonic acids, petroleum, calcium salts	Fresh water	1 mg/l

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	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

Use with adequate ventilation.

#### Personal protective equipment

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

Safety glasses with side-shields conforming to EN166

Hand protection  
Remarks

: Polyvinyl alcohol or nitrile- butyl-rubber gloves Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water. When handling hot material, use heat resistant gloves.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection

: Wear suitable protective clothing.  
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.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

In the case of vapour formation use a respirator with an approved filter.  
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Respirator with combination filter for vapour/particulate (EN 141)



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Filter type : Filter type AB-P

Protective measures : Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. These recommendations apply to the product as supplied.

### SECTION 9: Physical and chemical properties

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

Appearance : paste

Physical state : solid

Colour : No data available

Odour : mild, hydrocarbon-like

Odour Threshold : No data available

Melting point/freezing point : 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

Ignition temperature : not determined

Decomposition temperature : No data available

Self-Accelerating decomposition temperature (SADT) : No data available

pH : No data available

Viscosity

    Viscosity, dynamic : Not applicable

    Viscosity, kinematic : Not applicable

Solubility(ies)

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Water solubility : negligible

Solubility in other solvents : partly soluble

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

Vapour pressure : Not applicable

Relative density : 0,95 - 1,05 (25 °C)

Density : 0,95 - 1,05 g/cm<sup>3</sup> (25 °C)

Relative vapour density : No data available

### 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 : No data available

Miscibility with water : No data 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

No decomposition if stored normally.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation does not occur.

### 10.4 Conditions to avoid

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Conditions to avoid : Contamination  
Direct sources of heat.  
Strong sunlight for prolonged periods.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

calcium oxide  
Sulphur oxides  
Carbon oxides

## 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.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

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

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Dosage caused no mortality

LD50 (Rat, male): > 16.000 mg/kg  
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 1,9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OPP 81-3 Acute Inhalation Toxicity  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg  
Method: 40 CFR, Section 163.81-5, Federal Register, August 22, 1978 as modified in accordance with the revised EPA Pesticide Assessment Guidelines November 1982

GLP: yes

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### calcium dodecylbenzenesulphonate:

Acute oral toxicity : LD50 (Rat, male and female): 1.300 mg/kg  
GLP: no

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
GLP: yes  
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

### Sulfonic acids, petroleum, calcium salts:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat, male and female): > 1,9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OPP 81-3 Acute Inhalation Toxicity  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Dosage caused no mortality

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

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Dosage caused no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): > 1,9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OPP 81-3 Acute Inhalation Toxicity  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Dosage caused no mortality

### Residual oils (petroleum,) solvent-refined; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

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Method: OECD Test Guideline 401  
GLP: yes  
Remarks: Test results on an analogous product

Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Remarks: Test results on an analogous product

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: Test results on an analogous product

### 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.

### Components:

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

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **calcium dodecylbenzenesulphonate:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Irritating to skin.  
GLP : yes

#### **Sulfonic acids, petroleum, calcium salts:**

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

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

Species : Rabbit  
Result : No skin irritation

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### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Species : Rabbit  
Method : Draize Test  
Result : No skin irritation  
GLP : yes  
Remarks : Test results on an analogous product

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

Not classified based on available information.

### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
Remarks : Information given is based on data obtained from similar substances.

### **Components:**

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

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

#### **calcium dodecylbenzenesulphonate:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Risk of serious damage to eyes.  
GLP : yes

#### **Sulfonic acids, petroleum, calcium salts:**

Species : Rabbit  
Result : No eye irritation

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

Species : Rabbit  
Result : No eye irritation

### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes  
Remarks : Test results on an analogous product

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### 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:**

Exposure routes : Dermal  
Species : Guinea pig  
Result : The product is a skin sensitizer, sub-category 1B.

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : The product is a skin sensitizer, sub-category 1B.

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

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.  
GLP : yes

##### **Sulfonic acids, petroleum, calcium salts:**

Exposure routes : Dermal  
Species : Guinea pig  
Result : The product is a skin sensitizer, sub-category 1B.

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

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitizer, sub-category 1B.

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig

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Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.  
GLP : yes

Remarks : Test results on an analogous product

### Germ cell mutagenicity

Not classified based on available information.

### Components:

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

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: Test results on an analogous product

Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes  
Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Oral  
Result: negative  
GLP: yes

#### **calcium dodecylbenzenesulphonate:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: QSAR  
Result: negative

#### **Sulfonic acids, petroleum, calcium salts:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Test results on an analogous product



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Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Test results on an analogous product

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

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: TA98  
Metabolic activation: with metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.  
Remarks: Test results on an analogous product

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: no  
Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: positive  
GLP: yes

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Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 474  
Result: negative  
GLP: No information available.  
Remarks: Test results on an analogous product

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Species : Mouse, female  
Application Route : Dermal  
Exposure time : 18 month(s)  
Method : OECD Test Guideline 451  
Result : negative  
GLP : No information available.  
Remarks : Test results on an analogous product

Species : Mouse, male  
Application Route : Dermal  
Exposure time : 24 month(s)  
Method : OECD Test Guideline 453  
Result : positive  
GLP : No information available.  
Remarks : Test results on an analogous product

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

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

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Duration of Single Treatment: 28 Days  
General Toxicity - Parent: NOAEL: >= 500 mg/kg body weight  
Fertility: NOAEL: >= 500 mg/kg body weight  
Method: OECD Test Guideline 415  
GLP: yes  
Remarks: Test results on an analogous product

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### calcium dodecylbenzenesulphonate:

Effects on fertility : Test Type: Three-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 350 milligram per kilogram  
Duration of Single Treatment: 2 yr  
General Toxicity - Parent: 350 mg/kg body weight  
General Toxicity F1: 350 mg/kg body weight  
General Toxicity F2: 350 mg/kg body weight  
Remarks: No known significant effects or critical hazards.

Effects on foetal development : Species: Rat, female  
Application Route: Oral  
Dose: 300 milligram per kilogram  
Duration of Single Treatment: 20 d  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Teratogenicity: NOAEL: 300 mg/kg body weight  
Result: No adverse effects

### Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0 - 1000 milligram per kilogram  
General Toxicity - Parent: NOAEL:  $\geq$  1.000 mg/kg body weight  
Fertility: NOAEL:  $\geq$  1.000 mg/kg body weight  
Early Embryonic Development: NOAEL:  $\geq$  1.000 mg/kg body weight  
Method: OECD Test Guideline 421  
Result: Animal testing did not show any effects on fertility.  
GLP: yes  
Remarks: Test results on an analogous product

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat, female  
Application Route: Dermal  
Dose: 0 - 125 - 500 milligram per kilogram  
General Toxicity Maternal: NOAEL:  $\geq$  2.000 mg/kg body weight  
Teratogenicity: NOAEL:  $\geq$  2.000 mg/kg body weight  
Developmental Toxicity: NOAEL:  $\geq$  2.000 mg/kg body weight  
Embryo-foetal toxicity: NOAEL:  $\geq$  2.000 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: negative  
GLP: No information available.  
Remarks: Test results on an analogous product

### STOT - single exposure

Not classified based on available information.

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### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Components:

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

Species : Rat, male and female  
NOAEL : 500 mg/kg  
Application Route : Oral  
Exposure time : 28 Days  
Number of exposures : daily  
Method : OECD Test Guideline 407  
GLP : yes  
Remarks : Test results on an analogous product

#### **calcium dodecylbenzenesulphonate:**

Species : Rat, male and female  
LOAEL : 115 mg/kg  
Application Route : Oral  
Exposure time : 6 Months  
Number of exposures : 7 days/week  
Dose : 115 mg/kg  
Remarks : Subchronic toxicity

Species : Rat, male and female  
LOAEL : 250 mg/kg  
Application Route : Oral  
Exposure time : 1 Months  
Number of exposures : 7 days/week  
Dose : 250 mg/kg  
Remarks : Subacute toxicity

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Species : Rat, male  
LOAEL : 125 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Number of exposures : 5 days/week  
Dose : 0 - 125 - 500 mg/kg bw/d  
Method : OECD Test Guideline 408  
GLP : No information available.  
Remarks : Subchronic toxicity  
Test results on an analogous product

Species : Rat, male and female  
NOAEC : >= 1 mg/l  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 20 d  
Number of exposures : 6 hours/day

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Dose : 0 - 0.05 - 0,22  
Method : OECD Test Guideline 412  
GLP : No information available.  
Remarks : Subacute toxicity  
Test results on an analogous product

Species : Rat, male and female  
NOAEL : >= 2000 mg/kg  
Application Route : Skin contact  
Exposure time : 90 d  
Number of exposures : 5 days/week  
Dose : 0 - 2000 mg/kg bw/d  
Method : OECD Test Guideline 411  
GLP : No information available.  
Remarks : Subchronic toxicity  
Test results on an analogous product

### Aspiration toxicity

Not classified based on available information.

#### Product:

No aspiration toxicity classification

## 11.2 Information on other hazards

### 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.

### Further information

#### Product:

Remarks : The product itself has not been tested.

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

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

Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10.000 mg/l  
End point: mortality

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Exposure time: 96 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: water extractable fraction  
Test results on an analogous product

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1.000 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Analytical monitoring: yes  
Method: OPPTS 797.1300  
GLP: yes  
Remarks: water extractable fraction  
Test results on an analogous product

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
GLP: yes  
Remarks: water extractable fraction  
Test results on an analogous product

No observed adverse effect level (Pseudokirchneriella subcapitata (green algae)): >= 1.000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
GLP: yes  
Remarks: water extractable fraction  
Test results on an analogous product

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: water extractable fraction

### calcium dodecylbenzenesulphonate:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 2,8 - 4,2 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,9 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Test results on an analogous product

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Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 29 mg/l  
Exposure time: 96 h  
GLP: no  
Remarks: Test results on an analogous product

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,18 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
GLP: no  
Remarks: Fresh water  
Test results on an analogous product

### Ecotoxicology Assessment

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

### Sulfonic acids, petroleum, calcium salts:

Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10.000 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1.000 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OPPTS 797.1300  
Remarks: water extractable fraction

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
Remarks: Test results on an analogous product  
water extractable fraction

NOEC (Pseudokirchneriella subcapitata (green algae)): 1.000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
Remarks: water extractable fraction  
Test results on an analogous product

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l

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End point: Respiration inhibition  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: water extractable fraction

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

Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10.000 mg/l  
End point: mortality  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1.000 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: OPPTS 797.1300  
Remarks: water extractable fraction  
Test results on an analogous product

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (microalgae)): > 1.000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
Remarks: water extractable fraction  
Test results on an analogous product

NOEC (Pseudokirchneriella subcapitata (microalgae)): 1.000 mg/l  
Exposure time: 96 h  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
Remarks: water extractable fraction  
Test results on an analogous product

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### **Residual oils (petroleum,) solvent-refined; Baseoil — unspecified:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l  
End point: mortality  
Exposure time: 96 h  
Remarks: water extractable fraction

Toxicity to algae/aquatic plants : EL50 (Desmodesmus subspicatus (green algae)): > 1.000 mg/l  
Exposure time: 96 h  
Remarks: water extractable fraction



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### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: nominal concentration  
Test results on an analogous product  
water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: No information available.  
Remarks: nominal concentration  
Test results on an analogous product  
water extractable fraction

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: No information available.  
Remarks: nominal concentration  
Test results on an analogous product  
water extractable fraction

NOELR (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l  
Exposure time: 72 h  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: No information available.  
Remarks: nominal concentration  
Test results on an analogous product  
water extractable fraction

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 10 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: no  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: nominal concentration  
Test results on an analogous product  
water extractable fraction

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### 12.2 Persistence and degradability

#### Components:

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

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 2 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 8,6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes  
Remarks: Test results on an analogous product

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

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

##### **Sulfonic acids, petroleum, calcium salts:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 2 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 8,6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes  
Remarks: Test results on an analogous product

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

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 2 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 8,6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

##### **Residual oils (petroleum,) solvent-refined; Baseoil — unspecified:**

Biodegradability : Result: Not readily biodegradable.

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Biodegradability : Test Type: aerobic  
Concentration: 44 mg/l  
Result: Inherently biodegradable.

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Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

Stability in water : Remarks: The product is insoluble and floats on water.

### 12.3 Bioaccumulative potential

#### Components:

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

Partition coefficient: n-octanol/water : log Pow: 4,77 (25 °C)

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Partition coefficient: n-octanol/water : log Pow: > 3,90  
Method: Calculated value

### 12.4 Mobility in soil

#### Components:

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:**

Mobility : Remarks: The product is insoluble and floats on water.,  
Known distribution to environmental compartments

### 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.

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This product has no known ecotoxicological effects.  
The product itself has not been tested.  
Avoid release to the environment.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : Dispose of wastes in an approved waste disposal facility.  
In accordance with local and national regulations.  
Do not contaminate ponds, waterways or ditches with chemical or used container.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.
- 

### SECTION 14: Transport information

#### 14.1 UN number or ID number

- ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.2 UN proper shipping name

- ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

- ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.4 Packing group

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**ADN** : Not regulated as a dangerous good  
**ADR** : Not regulated as a dangerous good  
**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA (Cargo)** : Not regulated as a dangerous good  
**IATA (Passenger)** : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Hazard and Handling Notes. : Keep separated from foodstuffs.

### 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, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75  
Do not use for tattooing purposes.

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

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).

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors. : Neither banned nor restricted

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

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

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

Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5)

### 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  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
DE TRGS 900 / AGW : Time Weighted Average

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 La-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ANDEROL 86 EP2

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boratory 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; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.