

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 7220 FG

Version	Revision Date:	SDS Number:	Date of last issue: 04.08.2017
1.4	05.10.2020	000000007197	Date of first issue: 30.10.2014

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

#### 1.1 Product identifier

Trade name : ANDEROL 7220 FG

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

Use of the Sub-  
stance/Mixture : Lubricant

Recommended restrictions : Reserved for industrial and professional use.  
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 Solutions UK Ltd.  
Tenax Road, Trafford Park  
Manchester  
United Kingdom  
M17 1WT

Customer Service:

+44 161 875 3800

Prepared by

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

Further information for the safety data sheet : MSDSRe-  
quest@lanxess.com

#### 1.4 Emergency telephone number

Emergency telephone  
number:

+44 (0) 1235 239 670 (NCEC)

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

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Long-term (chronic) aquatic hazard, Category 3      H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

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

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Additional Labelling**

EUH208 Contains N-1-naphthylaniline. 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.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
N-1-naphthylaniline	90-30-2 201-983-0 01-2119488704-27-xxxx	Acute Tox. 4; H302 Skin Sens. 1B; H317 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0.25 - < 1
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine	110-25-8 203-749-3	Acute Tox. 4; H332 Skin Irrit. 2; H315	>= 0.25 - < 1

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	01-2119488991-20-xxxx	Eye Dam. 1; H318 Aquatic Acute 1; H400	
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119555270-46-xxxx	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.5 - < 1

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : None known.

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

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

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Burning produces noxious and toxic fumes.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate ventilation.

### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

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.

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### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Further information on storage stability : No decomposition if stored and applied as directed.

### 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
2,6-di-tert-butyl-p-cresol	128-37-0	GV	10 mg/m <sup>3</sup>	DK OEL

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

Substance name	End Use	Exposure routes	Potential health effects	Value	
N-1-naphthylaniline	Workers	Inhalation	Long-term systemic effects	0.18 mg/m <sup>3</sup>	
		Inhalation	Acute systemic effects	44 mg/m <sup>3</sup>	
	Workers	Dermal	Long-term systemic effects	0.05 mg/kg	
		Dermal	Acute systemic effects	6.67 mg/kg	
	General exposures	Inhalation	Long-term systemic effects	0.044 mg/m <sup>3</sup>	
		Inhalation	Acute systemic effects	33 mg/m <sup>3</sup>	
	General exposures	Dermal	Long-term systemic effects	0.03 mg/kg	
		Dermal	Long-term systemic effects	3.33 mg/kg	
	General exposures	Ingestion	Long-term systemic effects	0.03 mg/kg	
		Ingestion	Acute systemic effects	8 mg/kg	
	2,6-di-tert-butyl-p-cresol	Workers	Skin contact		0.5 mg/kg
		Workers	Inhalation		3.5 mg/m <sup>3</sup>

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

Substance name	Environmental Compartment	Value
N-1-naphthylaniline	Fresh water	0.0002 mg/l
	Marine water	0.00002 mg/l

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	Fresh water sediment	0.0344 mg/kg
	Marine sediment	0.00344 mg/kg
	Soil	0.0068 mg/kg
	STP	100 mg/l
2,6-di-tert-butyl-p-cresol	Fresh water	0.000199 mg/l
	Marine water	0.000019 mg/l
	Fresh water sediment	0.0996 mg/kg
	Marine sediment	0.00996 mg/kg
	Soil	0.04769 mg/kg

### 8.2 Exposure controls

#### Engineering measures

Effective exhaust ventilation system

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

#### Personal protective equipment

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

Hand protection

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Before removing gloves clean them with soap and water.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

#### Environmental exposure controls

Water :  
No special precautions required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : yellow

Odour : characteristic

Flash point : 274 °C

Density : 1.0 g/cm<sup>3</sup>

Viscosity  
Viscosity, kinematic : 216.0 mm<sup>2</sup>/s (40 °C)

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### 9.2 Other information

Flammability (liquids) : No data available

Oxidizing potential : No information available.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if used as directed.

### 10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture  
Contamination

### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
Oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Product:

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

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

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

#### Components:

#### **N-1-naphthylaniline:**

Acute oral toxicity : LD50 (Rat): 1,625 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

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### 2,6-di-tert-butyl-p-cresol:

Acute oral toxicity : LD50 (Rat, male and female): > 2,930 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### Skin corrosion/irritation

#### Product:

Remarks : Not classified due to lack of data.

#### Components:

##### N-1-naphthylaniline:

Species : Rabbit  
Method : Draize Test  
Result : No skin irritation

##### 2,6-di-tert-butyl-p-cresol:

Species : Rabbit  
Result : No skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks : Not classified due to lack of data.

#### Components:

##### N-1-naphthylaniline:

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

##### 2,6-di-tert-butyl-p-cresol:

Species : Rabbit  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Components:

##### N-1-naphthylaniline:

Test Type : Maximisation Test  
Species : Guinea pig



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

**2,6-di-tert-butyl-p-cresol:**

Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity**

**Product:**

Germ cell mutagenicity- Assessment : Not classified due to lack of data.

**Components:**

**N-1-naphthylaniline:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: Chinese Hamster Ovary (CHO)  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay  
Species: Mouse (male)  
Result: negative

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects., Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**2,6-di-tert-butyl-p-cresol:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: unscheduled DNA synthesis assay  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Method: Mutagenicity (micronucleus test)

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Result: negative

Test Type: in vivo assay  
Species: Rat (male)  
Cell type: Bone marrow  
Application Route: Oral  
Method: Mutagenicity (in vivo mammalian bone-marrow cyto-genetic test, chromosomal analysis)  
Result: negative

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

**Carcinogenicity**

**Product:**

Carcinogenicity - Assessment : Not classified due to lack of data.

**Components:**

**N-1-naphthylaniline:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**Reproductive toxicity**

**Product:**

Reproductive toxicity - Assessment : Not classified due to lack of data.

**Components:**

**2,6-di-tert-butyl-p-cresol:**

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

**STOT - single exposure**

**Product:**

Assessment : Not classified due to lack of data.

**STOT - repeated exposure**

**Product:**

Assessment : Not classified due to lack of data.

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**Components:**

**N-1-naphthylaniline:**

Exposure routes : Oral  
Target Organs : Liver, Kidney  
Assessment : May cause damage to organs through prolonged or repeated exposure.

**2,6-di-tert-butyl-p-cresol:**

Exposure routes : Oral  
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration toxicity**

**Product:**

No aspiration toxicity classification

**Further information**

**Product:**

Remarks : No data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**

Toxicity to fish : Remarks: No data available

**Components:**

**N-1-naphthylaniline:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.44 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.68 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Analytical monitoring: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Protozoa): 2 mg/l  
Exposure time: 48 h  
EC50 (Bacteria): > 10,000 mg/l

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Exposure time: 3 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.02 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: yes

M-Factor (Chronic aquatic toxicity) : 1

### 2,6-di-tert-butyl-p-cresol:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.07 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: yes  
GLP: yes

## 12.2 Persistence and degradability

### Product:

Biodegradability : Result: No data available

### Components:

#### **N-1-naphthylaniline:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301  
GLP: yes

#### **2,6-di-tert-butyl-p-cresol:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 50 mg/l  
Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Biodegradation: 4.5 %  
Exposure time: 28 d

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

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### Components:

#### **N-1-naphthylaniline:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 56 d  
Temperature: 25 °C  
Concentration: 0.1 mg/l  
Bioconcentration factor (BCF): 427 - 2,730

Partition coefficient: n-octanol/water : log Pow: 4.28

#### **2,6-di-tert-butyl-p-cresol:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 56 d  
Temperature: 25 °C  
Concentration: 0.05 mg/l  
Bioconcentration factor (BCF): 230 - 2,500

Partition coefficient: n-octanol/water : log Pow: 5.1  
GLP: yes

log Pow: 4.2

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

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Do not contaminate ponds, waterways or ditches with chemical or used container.

Offer surplus and non-recyclable solutions to a licensed disposal company.

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

### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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

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 - 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 (EC) No 850/2004 on persistent organic pollutants : 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

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### The components of this product are reported in the following inventories:

DSL	:	All components of this product are on the Canadian DSL
AICS	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TCSI	:	Not in compliance with the inventory
US.TSCA	:	All substances listed as active on the TSCA inventory

### 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.
H332	:	Harmful if inhaled.
H373	:	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
DK OEL	:	Denmark. Occupational Exposure Limits
DK OEL / GV	:	Long term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regula-

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tion; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Aquatic Chronic 3                      H412

#### Classification procedure:

Calculation method

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