

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## ANDEROL 3057M

Version 1.0      Revision Date: 11.10.2023      SDS Number: 215000006676      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 3057M  
Product code : 00000000062597716

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

Use of the Substance/Mixture : Lubricant  
Recommended restrictions on use : Reserved for industrial and professional use.

#### 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  
CCN1402.

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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:**

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P273 Avoid release to the environment.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### 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)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1 270-128-1 01-2119491299-23	Repr. 2; H361f	$\geq 1 - < 3$
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	125643-61-0 406-040-9 607-530-00-7 01-2119878226-29	Aquatic Chronic 4; H413	$\geq 1 - < 2,5$
triphenyl phosphate	115-86-6 204-112-2 01-2119457432-41	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	$\geq 0,25 - < 1$
Substances with a workplace exposure limit :			
Dec-1-ene, oligomers, hydrogenated (PAO 6 & 8)	68037-01-4  01-2119486452-34		$\geq 70 - < 90$
1-Decene, homopolymer, hydrogenated ( $\geq$ PAO10)	68037-01-4		$\geq 1 - < 10$

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For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : No hazards which require special 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 : 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.  
Get medical attention if irritation develops and persists.
- 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.  
If symptoms persist, call a physician.

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

- Symptoms : No information available.  
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.  
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-

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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 : Burning produces noxious and toxic fumes.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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 : Wear suitable protective equipment.  
Ensure adequate ventilation.  
Evacuate unnecessary personnel.

### 6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.  
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 : Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.  
Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

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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 : For personal protection see section 8.  
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.

### 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.
- Storage class (TRGS 510) : 10, Combustible liquids
- 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
Dec-1-ene, oligomers, hydrogenated (PAO 6 & 8)	68037-01-4	AGW (Alveolate fraction)	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			
1-Decene, homopolymer, hydrogenated (≥PAO10)	68037-01-4	AGW (Alveolate fraction)	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			

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triphenyl phosphate	115-86-6	AGW (Inhalable fraction)	12,5 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category): 2;(II)				
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Workers	Inhalation	Long-term exposure, Systemic effects	4,37 mg/m <sup>3</sup>
	Workers	Dermal	Long-term exposure, Systemic effects	0,62 mg/kg
	Consumers	Inhalation	Long-term exposure, Systemic effects	1,09 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term exposure, Systemic effects	0,31 mg/kg
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxy-phenyl)propionate	Consumers	Oral	Long-term exposure, Systemic effects	0,31 mg/kg
	Workers	Dermal	Acute systemic effects	100 mg/kg
	Workers	Inhalation	Acute systemic effects	1750 mg/m <sup>3</sup>
	Workers	Dermal	Acute local effects	16,67 mg/kg
	Workers	Dermal	Long-term systemic effects	0,67 mg/kg
	Workers	Inhalation	Long-term systemic effects	2,33 mg/m <sup>3</sup>
	Consumers	Dermal	Acute systemic effects	50 mg/kg
	Consumers	Inhalation	Acute systemic effects	875 mg/m <sup>3</sup>
	Consumers	Oral	Acute systemic effects	50 mg/kg
	Consumers	Dermal	Acute local effects	8,33 mg/kg
triphenyl phosphate	Consumers	Dermal	Long-term systemic effects	0,33 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,16 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	0,16 mg/kg
	Workers	Inhalation	Long-term systemic effects	3,7 mg/m <sup>3</sup>
	Workers	dermal	Long-term systemic effects	1,05 mg/kg bw/day

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	Consumer	Inhalation	Long-term systemic effects	0,91 mg/m3
	Consumer	dermal	Long-term systemic effects	0,525 mg/kg bw/day
	Consumer	oral	Long-term systemic effects	0,525 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Fresh water	0,051 mg/l
	Marine water	0,0051 mg/l
	Secondary Poisoning	0,51 mg/l
	Fresh water sediment	9320 mg/kg
	Marine sediment	932 mg/kg
	Soil	1860 mg/kg
	Sewage treatment plant	1 mg/l
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Fresh water	0,03 mg/l
	Marine water	0,0003 mg/l
	Fresh water sediment	60,9 mg/kg
	Marine sediment	0,609 mg/kg
	Soil	1 mg/kg
	Sewage treatment plant	1 mg/l
triphenyl phosphate	Freshwater	0,00048 mg/l
	Freshwater - intermittent	0,0025 mg/l
	Marine water	0,000048 mg/l
	Sewage treatment plant	5 mg/l
	Fresh water sediment	0,14285 mg/kg dry weight (d.w.)
	Marine sediment	0,014285 mg/kg dry weight (d.w.)
	Soil	0,0282 mg/kg dry weight (d.w.)
	Secondary Poisoning	16,667 mg/kg food

## 8.2 Exposure controls

### Engineering measures

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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

Effective exhaust ventilation system

### Personal protective equipment

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

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		Safety glasses with side-shields conforming to EN166
Hand protection		
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.
		The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Material	:	Nitrile rubber
Material	:	Polyvinyl alcohol
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.
Respiratory protection	:	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 the case of dust or aerosol formation use respirator with an approved filter.
		Respirator with combination filter for vapour/particulate (EN 141)
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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Physical state	:	liquid
Colour	:	yellow
Odour	:	No data available



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Odour Threshold	:	No data available
Pour point	:	-54 °C
Boiling point/boiling range	:	No data available
Flammability	:	No data available Remarks: No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	258 °C Method: ASTM D 92
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	52,8 mm <sup>2</sup> /s (40 °C) Method: ASTM D 445  8 mm <sup>2</sup> /s (100 °C) Method: ASTM D 445
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available

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Density : 0,869 g/cm<sup>3</sup> (15 °C)  
Method: ASTM D 1298

Relative vapour density : No data available

### 9.2 Other information

Explosives : No data available

Oxidizing properties : No data available

Self-ignition : No data available

Self-heating substances : No data available

Evaporation rate : No data available

Miscibility with water : No data available

Molecular weight : No data 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 : Contamination

### 10.5 Incompatible materials

Materials to avoid : 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 hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

Not classified based on available information.

##### Components:

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

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

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Dosage caused no mortality

##### **reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:**

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

##### **triphenyl phosphate:**

Acute oral toxicity : LD50 (Rat, male and female): > 20.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: No information available.  
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rabbit): > 10.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: No information available.  
Remarks: Dosage caused no mortality

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### Skin corrosion/irritation

Not classified based on available information.

#### Components:

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

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Mild skin irritation  
GLP : no

##### **reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:**

Result : No skin irritation

##### **triphenyl phosphate:**

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

### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

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

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

##### **reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:**

Result : No eye irritation

##### **triphenyl phosphate:**

Species : Rabbit  
Exposure time : 24 h  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

### Respiratory or skin sensitisation

#### **Skin sensitisation**

Not classified based on available information.

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### Respiratory sensitisation

Not classified based on available information.

### Components:

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

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

#### **reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:**

Exposure routes : Skin contact  
Species : Guinea pig  
Result : Did not cause sensitisation on laboratory animals.

#### **triphenyl phosphate:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

### Germ cell mutagenicity

Not classified based on available information.

### Components:

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

Genotoxicity in vitro : Test Type: Micronucleus test  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative  
GLP: yes  
Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary 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

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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

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

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes  
Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Mouse (male)  
Application Route: Oral  
Method: OECD Test Guideline 478  
Result: negative  
GLP: no  
Remarks: Test results on an analogous product

**reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:**

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Chinese hamster  
Method: OECD Test Guideline 474  
Result: negative

**triphenyl phosphate:**

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

Test Type: unscheduled DNA synthesis assay  
Test system: Chinese hamster fibroblasts  
Metabolic activation: without metabolic activation

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Method: OECD Test Guideline 482  
Result: negative  
GLP: No information available.

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

### **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

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

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

#### **triphenyl phosphate:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 166 - 341 - 516 - 690 milligram per kilogram  
Duration of Single Treatment: 91 d  
Frequency of Treatment: 7 days/week

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General Toxicity - Parent: NOEL: 690 mg/kg body weight  
Early Embryonic Development: NOAEL: 690 mg/kg body weight  
Method: OECD Test Guideline 415  
Result: Animal testing did not show any effects on fertility.  
GLP: No information available.

Effects on foetal development : Species: Rabbit, female  
Application Route: Oral  
Dose: 32 - 80 - 200 milligram per kilogram  
Duration of Single Treatment: 22 d  
General Toxicity Maternal: NOAEL: >= 200 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 200 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No effects on fertility and early embryonic development were detected.  
GLP: yes

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Components:

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

Species : Rat, male and female  
NOAEL : 25 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Number of exposures : daily  
Dose : 25-75-225 mg/kg bw/d  
Method : OECD Test Guideline 422  
GLP : yes  
Remarks : Subacute toxicity

#### **triphenyl phosphate:**

Species : Rat, male  
NOAEL : 105 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Number of exposures : Continuous  
Dose : 20 - 105 - 583 mg/kg  
Method : OECD Test Guideline 408  
GLP : yes  
Remarks : Subchronic toxicity

Species : Rat, female  
NOAEL : 117 mg/kg



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Application Route : Oral  
Exposure time : 90 d  
Number of exposures : Continuous  
Dose : 22 - 117 - 632 mg/kg  
Method : OECD Test Guideline 408  
GLP : yes  
Remarks : Subchronic toxicity

Species : Rabbit  
NOAEL : 1.000 mg/kg  
Application Route : Skin contact  
Exposure time : 21 - 23 d  
Number of exposures : 5 days/week  
Dose : 100 - 1000 mg/kg  
Method : OPPTS 870.3200  
GLP : No information available.  
Remarks : Subacute toxicity

### Aspiration toxicity

Not classified based on available information.

## 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.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

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

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203

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GLP: no  
Remarks: Fresh water  
nominal concentration

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 51 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Fresh water  
nominal concentration

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: no  
Remarks: Fresh water  
nominal concentration

NOEC (Desmodesmus subspicatus (green algae)): > 10 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: no  
Remarks: Fresh water  
nominal concentration

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: no  
Remarks: Fresh water  
nominal concentration

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EL10: 1,69 mg/l  
End point: Reproduction  
Exposure time: 21 Days  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Analytical monitoring: no  
Method: OECD Test Guideline 211  
GLP: yes

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Remarks: Fresh water  
nominal concentration  
water extractable fraction

**reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 74 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: Fresh water  
No toxicity at the limit of solubility
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: No toxicity at the limit of solubility  
Fresh water
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 3 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Fresh water  
No toxicity at the limit of solubility
- NOEC (Desmodesmus subspicatus (green algae)): >= 3 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Fresh water  
No toxicity at the limit of solubility
- Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 209

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GLP: yes  
Remarks: Fresh water  
No toxicity at the limit of solubility

Toxicity to fish (Chronic toxicity) : NOEC:  $\geq 0,001$  mg/l  
Exposure time: 36 d  
Species: Danio rerio (zebra fish)  
Analytical monitoring: yes  
Method: OECD Test Guideline 210  
GLP: yes  
Remarks: Fresh water  
No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC:  $\geq 1$  mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: no  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: No toxicity at the limit of solubility  
Fresh water

Plant toxicity : EC50:  $> 100$  mg/kg  
Exposure time: 19 h  
Species: Brassica alba (mustard)  
Method: OECD Test Guideline 208

Toxicity to terrestrial organisms : EC50: 250 mg/kg  
Exposure time: 56 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 222

EC50:  $> 1.000$  mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 207

### Ecotoxicology Assessment

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

### triphenyl phosphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,4 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: No information available.  
Method: EPA-660/3-75-009  
GLP: no  
Remarks: Fresh water

Toxicity to daphnia and other : LC50 (Americamysis): 0,18 - 0,32 mg/l

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aquatic invertebrates		Exposure time: 96 h Test Type: static test Analytical monitoring: No information available. Method: EPA-660/3-75-009 GLP: no Remarks: Fresh water
Toxicity to algae/aquatic plants	:	Lowest Observed Effect Concentration (Pseudokirchneriella subcapitata (green algae)): 0,5 - 5 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: no Remarks: Fresh water  NOEC (Lemna gibba G3 (gibbous duckweed)): 0,016 - 0,23 mg/l Exposure time: 48 h Test Type: Static Method: OECD Test Guideline 221 GLP: yes Remarks: Fresh water
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to fish (Chronic toxicity)	:	EC10: 0,037 mg/l End point: mortality Exposure time: 30 d Species: Oncorhynchus mykiss (rainbow trout) Analytical monitoring: yes Method: EPA-660/3-75-009 GLP: no Remarks: Fresh water  NOEC: 0,003 mg/l Exposure time: 35 d Species: Danio rerio (zebra fish) Test Type: flow-through test Method: OECD Test Guideline 234 GLP: yes Remarks: Fresh water
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,254 mg/l End point: Reproduction Exposure time: 21 d Species: Daphnia magna (Water flea) Analytical monitoring: yes Method: OECD Test Guideline 211 GLP: yes

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Remarks: Fresh water

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : Test Type: Survival test  
LC50: > 1.000 mg/kg  
Exposure time: 14 d  
Species: Eisenia andrei (red worm)  
Method: OECD Test Guideline 207

NOEC: >= 1.000 mg/kg  
Exposure time: 14 d  
Species: Eisenia andrei (red worm)  
Method: OECD Test Guideline 207

Test Type: Survival test  
EC50: > 336 mg/kg  
Exposure time: 28 d  
Species: Lumbriculus variegatus (Worm)  
Method: OECD Test Guideline 225

Toxicity to terrestrial organisms : LC50: 5.000 ppm  
Species: Colinus virginianus (Bobwhite quail)  
Method: OECD Test Guideline 205

### 1-Decene, homopolymer, hydrogenated (≥PAO10):

Toxicity to fish : LC50 (Fish): > 1.000 mg/l  
Exposure time: 96 h

## 12.2 Persistence and degradability

### Components:

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

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 20,1 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

#### **reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 2 - 4 %  
Exposure time: 28 d

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Method: OECD Test Guideline 301B  
GLP: yes

### triphenyl phosphate:

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Readily biodegradable.  
Biodegradation: 83 - 94 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C  
GLP: No information available.

Stability in water : Degradation half life (Fresh water): 19 d (25 °C)  
pH: 7

### 1-Decene, homopolymer, hydrogenated (≥PAO10):

Biodegradability : Result: Not readily biodegradable.

## 12.3 Bioaccumulative potential

### Components:

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

Partition coefficient: n-octanol/water : log Pow: 6,66 (23 °C)  
pH: 6,67  
Method: OECD Test Guideline 123  
GLP: yes  
Remarks: Based on data from similar materials

#### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Exposure time: 35 d  
Bioconcentration factor (BCF): 260  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 7,18

### triphenyl phosphate:

Partition coefficient: n-octanol/water : log Pow: 4,63 (20 °C)

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

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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.  
Harmful to aquatic life.  
Harmful to aquatic life with long lasting effects.  
The product itself has not been tested.

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

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## 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

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**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

**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. : Not dangerous cargo.  
Keep separated from foodstuffs.

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

Not applicable for product as supplied.

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## 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 3

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- 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
- 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 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5)

### 15.2 Chemical safety assessment

No information available.

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## SECTION 16: Other information

### Full text of H-Statements

- H361f : Suspected of damaging fertility.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H413 : May cause long lasting harmful effects to aquatic life.

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### Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Repr. : Reproductive toxicity  
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 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; 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

#### Classification of the mixture:

Aquatic Chronic 3      H412

#### Classification procedure:

Calculation method

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

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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.