

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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

1.1 Product identifier

Trade name : ANDEROL 465
Product code : 000000000062597724

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 CCN1402.

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-. 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)
Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]	Not Assigned 700-990-0 01-2119519251-50	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 1 - < 2,5
N-1-naphthylaniline	90-30-2 201-983-0 01-2119488704-27	Acute Tox. 4; H302 Skin Sens. 1B; H317 STOT RE 2; H373 (Blood, Kidney) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version
2.0

Revision Date:
11.02.2025

SDS Number:
203000014937

Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
		Acute toxicity estimate	
		Acute oral toxicity: 1.625 mg/kg	
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119555270-46	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25
1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-	94270-86-7 619-007-0	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 0,1 - < 0,25
Substances with a workplace exposure limit :			
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	64742-54-7 265-157-1 649-467-00-8 01-2119484627-25		>= 1 - < 10
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	64742-65-0 265-169-7 649-474-00-6 01-2119471299-27		>= 1 - < 10
Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil — unspecified	64742-56-9 265-159-2 649-469-00-9		>= 1 - < 10

For explanation of abbreviations see section 16.

Disclaimer: EC numbers starting with 6, 7, 8, or 9 in this document are ECHA List Numbers used for internal reference and do not carry legal significance as typical EC Numbers in Safety Data Sheets.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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 symptoms known or expected.

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.
-

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 (CO₂)
Dry powder
-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Sand
Water mist

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : 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 : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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 : 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
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	64742-54-7	AGW (Vapour and aerosols)	5 mg/m ³	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			
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	64742-65-0	AGW (Vapour and aerosols)	5 mg/m ³	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			
Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil — unspecified	64742-56-9	AGW (Vapour and aerosols)	5 mg/m ³	DE TRGS 900

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

	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			
N-1-naphthylaniline	90-30-2	AGW (Inhalable fraction)	2 mg/m ³	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, Substance sensitizing through the skin			
		MAK (inhalable fraction)	2 mg/m ³	DE DFG MAK
	Peak-limit: excursion factor (category): 2; II			
	Further information: Danger of sensitization of the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
2,6-di-tert-butyl-p-cresol	128-37-0	AGW (Vapour and aerosols, inhalable fraction)	10 mg/m ³	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			
		MAK (inhalable fraction)	10 mg/m ³	DE DFG MAK
	Peak-limit: excursion factor (category): 4; II			
	Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	Workers	Inhalation	Long-term exposure, Systemic effects	2,7 mg/m ³
	Workers	Inhalation	Long-term exposure, Local effects	5,6 mg/m ³
	Workers	Dermal	Long-term exposure, Systemic effects	1 mg/kg bw/day
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	Consumers	Oral	Long-term exposure, Systemic effects	0,74 mg/kg bw/day
	Workers	Inhalation	Long-term exposure, Systemic effects	2,7 mg/m ³
	Workers	Inhalation	Long-term exposure, Local effects	5,6 mg/m ³
	Workers	Dermal	Long-term exposure,	1 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version
2.0

Revision Date:
11.02.2025

SDS Number:
203000014937

Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

	Consumers	Oral	Systemic effects	bw/day
			Long-term exposure, Systemic effects	0,74 mg/kg bw/day
Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and tri-phenyl phosphate [TPP>25%]	Workers	Skin contact	Long-term systemic effects	10,75 mg/kg
	Workers	Inhalation	Long-term systemic effects	7,58 mg/m3
	General exposures	Skin contact	Long-term systemic effects	5,375 mg/kg
	General exposures	Inhalation	Long-term systemic effects	1,87 mg/m3
	General exposures	Ingestion	Long-term systemic effects	5,375 mg/kg
N-1-naphthylaniline	Workers	Inhalation	Long-term exposure, Systemic effects	0,08 mg/m3
	Workers	Inhalation	Short-term exposure, Systemic effects	44 mg/m3
	Workers	Dermal	Long-term exposure, Systemic effects	0,02 mg/kg bw/day
	Workers	Dermal	Short-term exposure, Systemic effects	6,67 mg/kg bw/day
	Consumers	Inhalation	Long-term exposure, Systemic effects	0,015 mg/m3
	Consumers	Inhalation	Short-term exposure, Systemic effects	33 mg/m3
	Consumers	Dermal	Long-term exposure, Systemic effects	0,008 mg/kg bw/day
	Consumers	Dermal	Short-term exposure, Systemic effects	3,33 mg/kg bw/day
	Consumers	Oral	Long-term exposure, Systemic effects	0,008 mg/kg bw/day
	Consumers	Oral	Short-term exposure, Systemic effects	2 mg/kg bw/day
2,6-di-tert-butyl-p-cresol	Workers	Inhalation	Long-term exposure, Systemic effects	4,4 mg/m3
	Workers	Inhalation	short-term, Systemic effects	18 mg/m3
	Workers	Dermal	Long-term exposure, Systemic effects	4,7 mg/kg bw/day
	Workers	Dermal	short-term, Systemic effects	19 mg/kg bw/day
	Consumers	Inhalation	Long-term exposure, Systemic effects	0,78 mg/m3
	Consumers	Inhalation	short-term, Systemic effects	3,1 mg/m3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version
2.0

Revision Date:
11.02.2025

SDS Number:
203000014937

Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

	Consumers	Dermal	Long-term exposure, Systemic effects	1,7 mg/kg bw/day
	Consumers	Dermal	short-term, Systemic effects	6,7 mg/kg bw/day
	Consumers	Oral	Long-term exposure, Systemic effects	0,25 mg/kg bw/day
	Consumers	Oral	short-term, Systemic effects	1 mg/kg bw/day
1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-	Workers	Inhalation	Long-term systemic effects	1,3 mg/m3
	Workers	dermal	Long-term systemic effects	0,4 mg/kg
	General exposures	Inhalation	Long-term systemic effects	0,3 mg/m3
	General exposures	dermal	Long-term systemic effects	0,2 mg/kg
	General exposures	oral	Long-term systemic effects	0,2 mg/kg

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

Substance name	Environmental Compartment	Value
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	Secondary Poisoning	9,33 mg/kg food
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified	Secondary Poisoning	9,33 mg/kg food
Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]	Fresh water	0,000798 mg/l
	Marine water	0,00008 mg/l
	Fresh water sediment	0,96 mg/kg
	Marine sediment	0,09 mg/kg
	Soil	0,252 mg/kg
N-1-naphthylaniline	Fresh water	0,0002 mg/l
	Marine water	0,00002 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0,0344 mg/kg dry weight (d.w.)
	Marine sediment	0,00344 mg/kg dry weight (d.w.)
	Soil	0,0068 mg/kg dry weight (d.w.)
	Secondary Poisoning	7,173 mg/kg food
2,6-di-tert-butyl-p-cresol	Fresh water	2,3 µg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

	Freshwater - intermittent	4 µg/l
	Marine water	0,23 µg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	3,4 mg/kg dry weight (d.w.)
	Marine sediment	0,34 mg/kg dry weight (d.w.)
	Soil	0,24 mg/kg dry weight (d.w.)
	Secondary Poisoning	16,7 mg/kg food
1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-	Freshwater	0,009 mg/l
	Marine water	0,001 mg/l
	Sewage treatment plant	0,69 mg/l
	Fresh water sediment	0,127 mg/kg dry weight
	Marine sediment	0,013 mg/kg dry weight
	Soil	0,02 mg/kg dry weight

II

8.2 Exposure controls

Engineering measures

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

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. Request information on glove permeation properties from the glove supplier.

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

-
- 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 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Physical state : liquid
- Colour : No data available
- Odour : No data available
- Odour Threshold : No data available
- Pour point : -54 °C
- Boiling point/boiling range : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Flash point : 246 °C
Method: ASTM D 92
- Ignition temperature : No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Decomposition temperature : No data available

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

pH : Not applicable

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 62,1 mm²/s (40 °C)
Method: ASTM D 445
11,4 mm²/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

Density : No data available

9.2 Other information

Explosives : No data available

Oxidizing properties : No data available

Flammability (liquids) : 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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 : Stable under recommended storage conditions.
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 : Strong acids and oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.
Hazardous decomposition products : Nitrogen oxides (NO_x)
Carbon oxides

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Components:

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male): > 0,4 mg/l
Exposure time: 6 h
Test atmosphere: vapour
GLP: Yes

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

N-1-naphthylaniline:

Acute oral toxicity : LD50 (Rat, male): 1.625 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male): > 5.000 mg/kg

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
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Dosage caused no mortality

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: Dosage caused no mortality

1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Acute oral toxicity : LD50 (Rat, male and female): 3.313 mg/kg
Method: OECD Test Guideline 401
GLP: No
Remarks: Test results on an analogous substance/product.

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: Test results on an analogous substance/product.

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: Yes
Remarks: Test results on an analogous substance/product.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: No information available.
Remarks: Test results on an analogous substance/product.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Method: OECD Test Guideline 402
GLP: Yes
Remarks: Test results on an analogous substance/product.

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

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: Yes
Remarks: Test results on an analogous substance/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 substance/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 substance/product.

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

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 402
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

Skin corrosion/irritation

Not classified due to lack of data.

Components:

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]:

Species : Rabbit
Result : No skin irritation

N-1-naphthylaniline:

Species : Rabbit

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Method : OECD Test Guideline 404
Result : No skin irritation
GLP : No

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

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

1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Species : Rabbit
Method : Draize Test
Result : Irritating to skin.
GLP : No
Remarks : Test results on an analogous substance/product.

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Species : Rabbit
Method : Draize Test
Result : No skin irritation
GLP : Yes
Remarks : Test results on an analogous substance/product.

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 substance/product.

Serious eye damage/eye irritation

Not classified due to lack of data.

Components:

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]:

Species : Rabbit
Result : No eye irritation

N-1-naphthylaniline:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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

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

1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

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

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : Yes
Remarks : Test results on an analogous substance/product.

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 substance/product.

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Components:

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]:

Exposure routes : Skin contact
Species : Human
Result : Not a skin sensitizer.
GLP : Yes

N-1-naphthylaniline:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Method : OECD Test Guideline 406
Result : The product is a skin sensitiser, sub-category 1B.
GLP : No

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

Test Type : Patch Test
Exposure routes : Skin contact
Species : Human
Result : Does not cause skin sensitisation.

Test Type : No data available
Exposure routes : Skin contact
Species : Guinea pig
Method : No information available.
Result : Did not cause sensitisation on laboratory animals.
GLP : No

1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : The product is a skin sensitiser, sub-category 1B.
GLP : Yes

Remarks : Test results on an analogous substance/product.

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

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

Remarks : Test results on an analogous substance/product.

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

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

Remarks : Test results on an analogous substance/product.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments



ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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

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

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
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

Test Type: Chromosome aberration test in vitro
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 479
Result: negative

N-1-naphthylaniline:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

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 information available.

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments



ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: dominant lethal test
Species: Mouse (male)
Application Route: Intraperitoneal
Method: OECD Test Guideline 478
Result: negative
GLP: No information available.

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

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: No information available.
Result: negative
GLP: No information available.

Test Type: HPRT test
Test system: rat hepatocytes
Metabolic activation: with metabolic activation
Method: No information available.
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Intraperitoneal injection
Method: No information available.
Result: negative
GLP: No information available.

Test Type: Cytogenetic assay
Species: Rat (male)
Cell type: Bone marrow
Application Route: Oral
Method: No information available.
Result: negative
GLP: No information available.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments



ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No
Remarks: Test results on an analogous substance/product.

Test Type: Ames test
Test system: Escherichia coli
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No
Remarks: Test results on an analogous substance/product.

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: Yes
Remarks: Test results on an analogous substance/product.

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 substance/product.

Distillates (petroleum), hydrotreated 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 substance/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 substance/product.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments



ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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 substance/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
Remarks: Test results on an analogous substance/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 substance/product.

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 substance/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 substance/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 substance/product.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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
Remarks: Test results on an analogous substance/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 substance/product.

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

Genotoxicity in vitro : Test system: Mammalian-Animal
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: Yes

Test system: Mammalian-Animal
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: Yes

Carcinogenicity

Not classified due to lack of data.

Components:

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

Species : Rat, male and female
Application Route : Oral
Exposure time : 22 month(s)
Dose : 0 - 25 - 100 - 250/500 mg/kg body weight
NOAEL : 25 mg/kg bw/day
Method : No information available.
Result : equivocal
GLP : Yes

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Distillates (petroleum), hydrotreated 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 substance/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 substance/product.

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

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 substance/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 substance/product.

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

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

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

Reproductive toxicity

Not classified due to lack of data.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Components:

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Dose: 50 - 250 - 1000 milligram per kilogram
General Toxicity - Parent: NOAEL: 1.000 mg/kg body weight
Method: OECD Test Guideline 421
GLP: Yes

N-1-naphthylaniline:

Effects on foetal development : Test Type: Pre-natal
Species: Rat, female
Application Route: Oral
Dose: 15 - 50 - 150 milligram per kilogram
General Toxicity Maternal: NOAEL: 50 mg/kg bw/day
Developmental Toxicity: NOAEL: 150 mg/kg bw/day
Method: OECD Test Guideline 414
GLP: Yes

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

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 0 - 25 - 100 - 250/500
Fertility: NOAEL: 500 mg/kg body weight
Result: Animal testing did not show any effects on fertility.
GLP: Yes

Effects on foetal development : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 0 - 25 - 100 - 250/500 milligram per kilogram
General Toxicity Maternal: NOAEL: 100 mg/kg body weight
Developmental Toxicity: NOAEL: 100 mg/kg body weight
Method: No information available.
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses
GLP: Yes

Test Type: Pre-natal
Species: Mouse, female
Application Route: Oral
Dose: 70 - 240 - 800 milligram per kilogram
General Toxicity Maternal: NOAEL: 240 mg/kg body weight
Developmental Toxicity: NOAEL: 800 mg/kg body weight
Method: No information available.
Result: Did not show teratogenic effects in animal experiments.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

GLP: No information available.

1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Application Route: Oral
Dose: 0 - 15 - 45 - 150 mg/kg bw/day
General Toxicity - Parent: NOAEL: 45 mg/kg bw/day
Fertility: NOAEL: 150 mg/kg bw/day
Early Embryonic Development: NOAEL: 45 mg/kg bw/day
Method: OECD Test Guideline 422
Result: Animal testing did not show any effects on fertility.
GLP: Yes
Remarks: Test results on an analogous substance/product.

Effects on foetal development : Test Type: Pre-natal
Species: Rat, female
Application Route: Oral
Dose: 0 - 15 - 45 - 150 mg/kg bw/day
General Toxicity Maternal: NOAEL: 45 mg/kg bw/day
Teratogenicity: NOAEL: 150 mg/kg bw/day
Developmental Toxicity: NOAEL: 150 mg/kg bw/day
Embryo-foetal toxicity: NOAEL: 150 mg/kg bw/day
Method: OECD Test Guideline 414
Result: Did not show teratogenic effects in animal experiments.
GLP: Yes
Remarks: Test results on an analogous substance/product.

Distillates (petroleum), hydrotreated 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 substance/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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments



ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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 substance/product.

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 substance/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 substance/product.

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

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Dose: > 1000 milligram per kilogram
Duration of Single Treatment: 30 d
Symptoms: NOAEL
Method: OECD Test Guideline 421
GLP: Yes

Species: Rat, female
Application Route: Skin contact
Dose: > 2000 milligram per kilogram
Duration of Single Treatment: 18 d

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Symptoms: NOAEL, Teratogenicity
Method: OECD Test Guideline 414
GLP: Yes

Species: Rat, female
Application Route: Skin contact
Dose: 125 milligram per kilogram
Duration of Single Treatment: 18 d
Symptoms: Lowest observed adverse effect level, Maternal toxicity
Method: OECD Test Guideline 414
GLP: Yes

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Components:

N-1-naphthylaniline:

Exposure routes : Oral
Target Organs : Blood, Kidney
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity

Components:

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]:

Species : Rat, male and female
NOAEL : 1600 ppm
Application Route : Oral
Exposure time : 90 d
Number of exposures : Continuous
Dose : 100 - 400 - 1600 ppm
Method : OECD Test Guideline 408
Remarks : Subchronic toxicity

N-1-naphthylaniline:

Species : Rat, male and female
LOAEL : 5 mg/kg
Application Route : Oral
Exposure time : 90 d
Number of exposures : daily
Dose : 5 - 25 - 125 mg/kg bw/day
Method : OECD Test Guideline 408

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

GLP : Yes
Target Organs : Blood, Kidney
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
Remarks : Subchronic toxicity

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

Species : Rat, male and female
NOAEL : 25 mg/kg
LOAEL : 100 mg/kg
Application Route : Oral
Exposure time : 22 Months
Number of exposures : daily
Dose : 0 - 25 - 100 - 250/500 mg/kg bw/day
Method : No information available.
GLP : Yes
Symptoms : alteration in liver enzymes
Remarks : Chronic toxicity

Species : Pig, male and female
 : 1500 ppm
Application Route : Oral
Exposure time : 42 Tage
Number of exposures : daily
Dose : 0 - 150 - 1000 - 1500 parts per million
Method : No information available.
GLP : Yes
Remarks : Subacute toxicity

1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Species : Rat, male and female
NOAEL : 150 mg/kg
Application Route : Oral
Exposure time : 90 Tage
Number of exposures : daily
Dose : 0 - 15 - 45 - 150 mg/kg bw/day
Method : OECD Test Guideline 408
GLP : Yes
Remarks : Subchronic toxicity
 : Test results on an analogous substance/product.

Species : Rat, male and female
NOAEL : 45 mg/kg
LOAEL : 150 mg/kg
Application Route : Oral
Number of exposures : daily
Dose : 0 - 15 - 45 - 150 mg/kg bw/day
Method : OECD Test Guideline 422
GLP : Yes
Remarks : Test results on an analogous substance/product.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Distillates (petroleum), hydrotreated 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 substance/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
Dose : 0 - 0.05 - 0,22
Method : OECD Test Guideline 412
GLP : No information available.
Remarks : Subacute toxicity
Test results on an analogous substance/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 substance/product.

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 substance/product.

Species : Rat, male and female
NOAEC : ≥ 1 mg/l
Application Route : inhalation (dust/mist/fume)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Exposure time : 20 d
Number of exposures : 6 hours/day
Dose : 0 - 0.05 - 0,22
Method : OECD Test Guideline 412
GLP : No information available.
Remarks : Subacute toxicity
Test results on an analogous substance/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 substance/product.

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

Species : Rat, male
LOAEL : 125 mg/kg
Application Route : Oral
Exposure time : 90 d
Number of exposures : 5 days/week
Dose : 125 mg/kg
Method : OECD Test Guideline 408
Remarks : Subchronic toxicity

Species : Rabbit, male and female
NOAEL : 1.000 mg/kg
Application Route : Skin contact
Exposure time : 4 weeks
Dose : 1000 mg/kg
Method : OECD Test Guideline 410
GLP : Yes
Remarks : Subacute toxicity

Species : Rat, male and female
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 4 weeks
Number of exposures : 6 hours/day
Dose : 220 mg/m³
Remarks : Subacute toxicity

Aspiration toxicity

Based on available data, the classification criteria are not met.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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:

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]:

Toxicity to fish : LC50 (Ictalurus punctatus (channel catfish)): 0,8 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: No
GLP: No
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,202 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: Yes
Remarks: Fresh water

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (algae)): > 1,7 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: Yes
Method: OECD Test Guideline 201
GLP: Yes
Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,16

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: Yes
Method: OECD Test Guideline 201
GLP: Yes
Remarks: Fresh water

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0,093 mg/l
Exposure time: 90 d
Species: Pimephales promelas (fathead minnow)
Analytical monitoring: Yes
Method: OECD Test Guideline 215
GLP: No
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0399 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Analytical monitoring: Yes
GLP: No
Remarks: Fresh water

N-1-naphthylaniline:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,44 mg/l
Exposure time: 96 h
Analytical monitoring: No
Remarks: nominal concentration

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,3 mg/l
End point: Immobilization
Exposure time: 48 h
Analytical monitoring: No
Remarks: nominal concentration

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,93 mg/l
End point: Growth rate
Exposure time: 96 h
Analytical monitoring: No
Remarks: nominal concentration

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l
End point: Respiration inhibition

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments



ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,032 mg/l
End point: reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Analytical monitoring: No
Method: OECD Test Guideline 211
GLP: Yes
Remarks: nominal concentration

M-Factor (Chronic aquatic toxicity) : 1

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

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,57 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Regulation (EC) No. 440/2008, Annex, C.1
GLP: Yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,48 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

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 0,4 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: Yes
Method: Regulation (EC) No. 440/2008, Annex, C.3
GLP: Yes
Remarks: Fresh water

EC10 (Desmodesmus subspicatus (green algae)): 0,4 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: Yes
Method: Regulation (EC) No. 440/2008, Annex, C.3
GLP: Yes
Remarks: Fresh water

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: No
Method: OECD Test Guideline 209
GLP: Yes
Remarks: Fresh water
nominal concentration
- Toxicity to fish (Chronic toxicity) : NOEC: 0,053 mg/l
Exposure time: 42 d
Species: *Oryzias latipes* (Orange-red killifish)
Test Type: flow-through test
Analytical monitoring: Yes
Method: OECD Test Guideline 210
GLP: Yes
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,023 mg/l
End point: Reproduction
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Test Type: semi-static test
Analytical monitoring: Yes
Method: OECD Test Guideline 202
GLP: Yes
Remarks: Fresh water
- M-Factor (Chronic aquatic toxicity) : 1
- Toxicity to soil dwelling organisms : Test Type: Reproduction Test
NOEC: 25 mg/kg
Exposure time: 28 d
End point: Reproduction
Species: *Eisenia fetida* (earthworms)
Method: OECD Test Guideline 222
GLP: Yes
- Plant toxicity : NOEC: 4,74 mg/kg
Exposure time: 17 d
End point: Growth inhibition
Species: *Allium cepa*
Method: OECD Test Guideline 208
GLP: Yes
- EC50: 20,9 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Exposure time: 17 d
End point: Growth inhibition
Species: Allium cepa
Method: OECD Test Guideline 208
GLP: Yes

1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,3 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: No
Method: OECD Test Guideline 203
GLP: No
Remarks: Fresh water
nominal concentration
Test results on an analogous substance/product.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,05 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: Yes
Method: OECD Test Guideline 202
GLP: Yes
Remarks: Fresh water
nominal concentration
Test results on an analogous substance/product.

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 0,976 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
nominal concentration
Test results on an analogous substance/product.

EC10 (Desmodesmus subspicatus (green algae)): 0,658 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
nominal concentration
Test results on an analogous substance/product.

M-Factor (Acute aquatic tox- : 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

icity)

Toxicity to microorganisms : EC20 (activated sludge): 15 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Analytical monitoring: No
Method: OECD Test Guideline 209
GLP: No
Remarks: Fresh water
nominal concentration
Test results on an analogous substance/product.

EC50 (activated sludge): 69 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Analytical monitoring: No
Method: OECD Test Guideline 209
GLP: No
Remarks: Fresh water
nominal concentration
Test results on an analogous substance/product.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,35 mg/l
End point: Reproduction
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: No
Method: OECD Test Guideline 211
GLP: Yes
Remarks: Fresh water
nominal concentration
Test results on an analogous substance/product.

EC10: 0,435 mg/l
End point: Reproduction
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: No
Method: OECD Test Guideline 211
GLP: Yes
Remarks: Fresh water
nominal concentration
Test results on an analogous substance/product.

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Analytical monitoring: Yes

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments



ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Method: OECD Test Guideline 203
GLP: Yes
Remarks: nominal concentration
Test results on an analogous substance/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 substance/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 substance/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 substance/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 substance/product.
water extractable fraction

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Method: OECD Test Guideline 203
GLP: Yes
Remarks: nominal concentration
Test results on an analogous substance/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 substance/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 substance/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 substance/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 substance/product.
water extractable fraction

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

Toxicity to fish : EC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments



ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

GLP: Yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Fresh water

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: Yes
Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : NOEC: > 1.000 mg/l
Exposure time: 14 Days
Species: Oncorhynchus mykiss (rainbow trout)
Method: QSAR
GLP: Yes
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l
Exposure time: 21 Days
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
GLP: Yes
Remarks: Fresh water

12.2 Persistence and degradability

Components:

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 61 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

N-1-naphthylaniline:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

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

Biodegradability : Test Type: aerobic
Inoculum: activated sludge

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Result: Not readily biodegradable.
Biodegradation: 4,5 %
Exposure time: 28 d
Method: OECD Test Guideline 301C
GLP: No information available.

Stability in water : Degradation half life (DT50): 4 - 8 d
Hydrolysis: at 20 °C

Photodegradation : Sensitiser: OH
Degradation (indirect photolysis):
Degradation half life: 21,054 h

Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 31 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: Yes
Remarks: Test results on an analogous substance/product.

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

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

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

Biodegradability : Test Type: aerobic
Result: Not readily biodegradable.
Biodegradation: 2 - 4 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: Yes

12.3 Bioaccumulative potential

Components:

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP>25%]:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 1.850

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Partition coefficient: n-octanol/water : log Pow: 4,68 (25 °C)
Method: OECD Test Guideline 117

N-1-naphthylaniline:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 56 d
Bioconcentration factor (BCF): ≥ 427
Method: OECD Test Guideline 305C

Partition coefficient: n-octanol/water : log Pow: 4,28

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

Bioaccumulation : Bioconcentration factor (BCF): > 2.000

Species: Cyprinus carpio (Carp)
Exposure time: 56 d
Temperature: 25 °C
Concentration: 0,05 mg/l
Bioconcentration factor (BCF): 781
Method: OECD Test Guideline 305
GLP: No information available.

Species: Cyprinus carpio (Carp)
Exposure time: 56 d
Temperature: 25 °C
Concentration: 0,005 mg/l
Bioconcentration factor (BCF): 839
Method: OECD Test Guideline 305
GLP: No information available.

Partition coefficient: n-octanol/water : log Pow: 5,1
Method: measured

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:

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

Mobility : Medium: Soil
Content: 82,9 %
Method: Calculation, Mackay Level III Fugacity Model

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

- : Medium: Water
Content: 8,53 %
Method: Calculation, Mackay Level III Fugacity Model
- : Medium: Sediment
Content: 7,23 %
Method: Calculation, Mackay Level III Fugacity Model
- : Medium: Air
Content: 1,33 %
Method: Calculation, Mackay Level III Fugacity Model
- Distribution among environmental compartments : log Koc: 4,17
Method: estimated
- Stability in soil : Test Type: aerobic degradation
Soil temperature: 12 °C
Radio label: Yes
pH: 5,7
Cation exchange capacity: 16 m_/kg
Biomass: 214 mg/kg
Concentration: 0,5 mg/kg
Method: OECD Test Guideline 307
GLP: Yes

Test Type: aerobic degradation
Soil temperature: 12 °C
Radio label: Yes
pH: 6,6
Cation exchange capacity: 47 m_/kg
Biomass: 265,7 mg/kg
Concentration: 0,5 mg/kg
Method: OECD Test Guideline 307
GLP: Yes

Test Type: aerobic degradation
Soil temperature: 12 °C
Radio label: Yes
pH: 7,4
Cation exchange capacity: 265 m_/kg
Biomass: 531,8 mg/kg
Concentration: 0,5 mg/kg
Method: OECD Test Guideline 307
GLP: Yes

Test Type: aerobic degradation
Soil temperature: 12 °C
Radio label: Yes
pH: 7,2
Cation exchange capacity: 257 m_/kg
Biomass: 938,7 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

Concentration: 0,5 mg/kg
Method: OECD Test Guideline 307
GLP: Yes

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.

Components:

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

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

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.

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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

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

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

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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 away from acids and oxidizing agents.
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, 3

2-naphthylamine (Number on list 75, 43, 28, 12)

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). : triphenyl phosphate

Regulation (EU) No 2024/590 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

II

Council Regulation (EC) No 273/2004 on drug precursors : Not applicable

Regulation (EU) 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.

II

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.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
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.
H411 : 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
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
STOT RE : Specific target organ toxicity - repeated exposure
DE DFG MAK : Germany. MAK BAT Annex IIa
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
DE DFG MAK / MAK : MAK value
DE TRGS 900 / AGW : Time Weighted Average

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments

ANDEROL 465

Version 2.0 Revision Date: 11.02.2025 SDS Number: 203000014937 Date of last issue: 11.10.2023
Country / Language: DE / 6N (EN)

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and all subsequent amendments



ANDEROL 465

Version	Revision Date:	SDS Number:	Date of last issue: 11.10.2023
2.0	11.02.2025	203000014937	Country / Language: DE / 6N (EN)
