

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## ANDEROL PQAA 460

Version	Revision Date:	SDS Number:	Date of last issue: 15.10.2020
1.5	22.08.2022	000000010230	Date of first issue: 25.11.2011

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

#### 1.1 Product identifier

Trade name : ANDEROL PQAA 460

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

Use of the Sub-  
stance/Mixture : Lubricant

Recommended restrictions  
on use : Restricted to professional users.

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

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

Manufacturer  
Anderol Specialty Lubricants  
Groot Egtenrayseweg 23  
5928 PA Venlo  
Netherlands  
Telephone : +31-77 396 0340

Prepared by : Production, Technology, Safety & Environment  
+4922188852288

Further information for the safety data sheet : in-  
fosds@lanxess.com

#### 1.4 Emergency telephone number

+44 20 3885 0382 (CCN1001748)  
Poison Information Centre telephone number +45 8212 1212

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Not a hazardous substance or mixture.

#### 2.2 Label elements

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

Hazard statements : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Not a hazardous substance or mixture.

##### Additional Labelling

EUH210 Safety data sheet available on request.

#### 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 01-2119491299-23-0002	Repr. 2; H361f	>= 0.1 - < 1
Substances with a workplace exposure limit :			
White mineral oil (petroleum)	8042-47-5 232-455-8		>= 50 - < 70

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.   |
| If inhaled              | : | Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.<br>If symptoms persist, call a physician.                      |
| In case of skin contact | : | Take off contaminated clothing and shoes immediately.<br>Wash off with soap and plenty of water.   |
| In case of eye contact  | : | Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.                                     |
| If swallowed            | : | Clean mouth with water and drink afterwards plenty of water.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person. |

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

- |          |   |             |
|----------|---|-------------|
| Symptoms | : | None known. |
|----------|---|-------------|

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

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

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

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

#### 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. |
|---------------------------------------|---|---|

#### 5.3 Advice for firefighters

- |   |   |  |
|---|---|--|
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |
| Further information                           | : | Standard procedure for chemical fires.                         |

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### 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 : No special environmental precautions required.

#### 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

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
No special handling advice required.

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

Hygiene measures : General industrial hygiene practice.

#### 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.

Advice on common storage : No special restrictions on storage with other products.

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
White mineral oil (petroleum)	8042-47-5	GV (mist and particles)	1 mg/m <sup>3</sup>	DK OEL

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### 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	Dermal	Long-term systemic effects	0.62 mg/kg
	Workers	Inhalation	Long-term systemic effects, Systemic effects	4.37 mg/m3
	General exposures	Skin contact	Chronic effects, Systemic effects	0.31 mg/kg
	General exposures	Inhalation	Chronic effects, Systemic effects	1.09 mg/m3
	General exposures	Ingestion	Chronic effects, Systemic effects	0.31 mg/kg

### 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
	Fresh water sediment	9320 mg/kg
	Marine sediment	932 mg/kg
	Soil	1860 mg/kg
	STP	1 mg/l

## 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 protection : Safety glasses

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : clear, yellow

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Pour point	:	-21 °C
Flash point	:	234 °C
Viscosity		
Viscosity, dynamic	:	32.5 - 506.0 mPa.s (40 - 100 °C) Method: ASTM D 445
Viscosity, kinematic	:	441.4 mm <sup>2</sup> /s (40 °C)
Density	:	0.88 g/cm <sup>3</sup> (15 °C)

### 9.2 Other information

Flammability (liquids)	:	No data available
Oxidizing potential	:	No information available.
		No information available.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	No hazards to be specially mentioned.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Exposure to moisture Contamination
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### 10.5 Incompatible materials

Materials to avoid	:	Strong acids and oxidizing agents
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### 10.6 Hazardous decomposition products

Hazardous decomposition products	:	Nitrogen oxides (NO <sub>x</sub> ) Carbon oxides
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### SECTION 11: Toxicological information

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

##### Acute toxicity

###### Product:

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

Acute inhalation toxicity : Acute toxicity estimate: 183.33 mg/l  
Test atmosphere: vapour  
Method: Calculation method

Remarks: Not classified due to lack of data.

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

###### Components:

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

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

##### Skin corrosion/irritation

###### Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

###### Components:

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

Species : Rabbit  
Method : OECD-Guideline No. 404  
Result : Mild skin irritation

##### Serious eye damage/eye irritation

###### Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

###### Components:

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

Species : Rabbit

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Method	:	OECD Test Guideline 405
Result	:	No eye irritation

### Respiratory or skin sensitisation

#### Product:

Remarks : Not classified due to lack of data.

#### Components:

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

Species	:	Guinea pig
Assessment	:	Did not cause sensitisation on laboratory animals.
Method	:	OECD Test Guideline 406

### Germ cell mutagenicity

#### Product:

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

#### Components:

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

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

### Carcinogenicity

#### Product:

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

### Reproductive toxicity

#### Product:

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

#### 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.



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GLP: yes

Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Strain: wistar  
Application Route: Ingestion  
Dose: 0-200-600-1800 parts per million  
Method: OECD Test Guideline 443  
Result: Some evidence of adverse effects on development, based on animal experiments.  
GLP: No information available.

Effects on foetal development

: Test Type: Embryo-foetal development  
Species: Rabbit, female  
Application Route: Oral  
Dose: 10-30-100 milligram per kilogram  
General Toxicity Maternal: NOAEL: 30 mg/kg bw/day  
Teratogenicity: NOAEL: 100 mg/kg bw/day  
Developmental Toxicity: NOEL: 30 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses  
GLP: yes

Test Type: Embryo-foetal development  
Species: Rat, female  
Application Route: Oral  
Dose: 50-150-500 milligram per kilogram  
General Toxicity Maternal: NOAEL: 150 mg/kg bw/day  
Teratogenicity: NOAEL: 500 mg/kg bw/day  
Developmental Toxicity: NOAEL: 500 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: negative  
GLP: yes

Reproductive toxicity - Assessment

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

### STOT - single exposure

#### Product:

Assessment : Not classified due to lack of data.

### STOT - repeated exposure

#### Product:

Assessment : Not classified due to lack of data.

### Aspiration toxicity

#### Product:

No aspiration toxicity classification

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### 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 : No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

#### 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  
GLP: no  
Remarks: Fresh water

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

Toxicity to algae/aquatic plants : EbC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth rate

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Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: no  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EL10: 1.69 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: no  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: Fresh water

### Ecotoxicology Assessment

Chronic aquatic toxicity : No toxicity at the limit of solubility, This product has no known ecotoxicological effects.

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Result: No data available

#### Components:

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

Biodegradability : Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
Method: CO2 Evolution Test

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

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

Partition coefficient: n-octanol/water : log Pow: > 7

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: 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 : There is no data available for this product.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport information

### 14.1 UN number or ID number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

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

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

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

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KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory

### 15.2 Chemical safety assessment

No information available.

## SECTION 16: Other information

### Full text of H-Statements

H361f : Suspected of damaging fertility.

### Full text of other abbreviations

Repr.	:	Reproductive toxicity
DK OEL	:	Denmark. Occupational Exposure Limits
DK OEL / GV	:	Long term exposure limit

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

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striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DK / EN