

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 5220 XEP

Version	Revision Date:	SDS Number:	Date of last issue: 25.07.2018
1.6	06.10.2020	000000009396	Date of first issue: 17.10.2011

---

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

#### 1.1 Product identifier

Trade name : ANDEROL 5220 XEP

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

Use of the Sub-  
stance/Mixture : Lubricant, Additive

Recommended restrictions  
on use : Reserved for industrial and professional use.

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

:

Company:

Manufacturer  
Anderol Specialty Lubricants  
Groot Egtenrayseweg 23  
5928 PA Venlo  
Netherlands

Telephone : +31-77 396 0340

Supplier  
LANXESS Solutions UK Ltd.  
Tenax Road, Trafford Park  
Manchester  
United Kingdom  
M17 1WT

Customer Service:  
Prepared by

+44 161 875 3800  
Product Safety Department  
(US) +1 866-430-2775

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

#### 1.4 Emergency telephone number

Emergency telephone  
number:

+44 (0) 1235 239 670 (NCEC)

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 5220 XEP

Version      Revision Date:      SDS Number:      Date of last issue: 25.07.2018  
1.6          06.10.2020          000000009396      Date of first issue: 17.10.2011

### 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)

Not a hazardous substance or mixture.

##### Additional Labelling

EUH210      Safety data sheet available on request.  
EUH208      Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorous pentoxide, and salted by amines, C12-14- tert—alkyl, Isooctadecanoic acid, reaction products with tetraethylenepentamine. May produce an allergic reaction.

#### 2.3 Other hazards

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

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature                      :    Mixture

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorous pentoxide, and salted by amines, C12-14- tert—alkyl	Not Assigned 931-384-6 01-2119493620-38-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0.1 - < 0.25
Isooctadecanoic acid, reaction products with tetraethylene-pentamine	68784-17-8 272-225-4 01-2119960832-33-XXXX	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 0.1 - < 1

For explanation of abbreviations see section 16.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 5220 XEP

Version	Revision Date:	SDS Number:	Date of last issue: 25.07.2018
1.6	06.10.2020	000000009396	Date of first issue: 17.10.2011

---

### 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.  
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.
- 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 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.

#### 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 : Burning produces noxious and toxic fumes.

#### 5.3 Advice for firefighters

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 5220 XEP

Version 1.6      Revision Date: 06.10.2020      SDS Number: 000000009396      Date of last issue: 25.07.2018  
Date of first issue: 17.10.2011

---

### SECTION 6: Accidental release measures

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

Personal precautions : Wear suitable protective equipment.

#### 6.2 Environmental precautions

Environmental precautions : 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

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Isooctadecanoic acid, reaction products with	Workers	Inhalation	Long-term systemic effects	11.75 mg/m <sup>3</sup>

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 5220 XEP

Version 1.6      Revision Date: 06.10.2020      SDS Number: 000000009396      Date of last issue: 25.07.2018  
Date of first issue: 17.10.2011

tetraethylene-pentamine				
	Workers	Dermal	Long-term systemic effects	3.33 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses

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.

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

Appearance : liquid

Colour : yellow

Pour point : -45 °C

Flash point : 248 °C  
Method: ASTM D 92

Density : 0.899 g/cm<sup>3</sup> (15 °C)  
Method: ASTM D 1298

Viscosity  
Viscosity, kinematic : 221.8 mm<sup>2</sup>/s (40 °C)  
Method: ASTM D 445  
  
24.5 mm<sup>2</sup>/s (100 °C)  
Method: ASTM D 445

### 9.2 Other information

Flammability (liquids) : No data available

Oxidizing potential : No information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 5220 XEP

Version	Revision Date:	SDS Number:	Date of last issue: 25.07.2018
1.6	06.10.2020	000000009396	Date of first issue: 17.10.2011

---

### 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.

#### 10.4 Conditions to avoid

Conditions to avoid : No data available  
Contamination

#### 10.5 Incompatible materials

Materials to avoid : Acids  
Bases  
Oxidizing agents

#### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides  
Nitrogen oxides (NOx)

---

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

##### Product:

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

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

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

##### 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:

##### Isooctadecanoic acid, reaction products with tetraethylenepentamine:

Result : Irritating to skin.

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 5220 XEP

Version 1.6      Revision Date: 06.10.2020      SDS Number: 000000009396      Date of last issue: 25.07.2018  
Date of first issue: 17.10.2011

---

### 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:**

**Isooctadecanoic acid, reaction products with tetraethylenepentamine:**

Result : Irritating to eyes.

### Respiratory or skin sensitisation

**Product:**

Remarks : No data available

Remarks : Not classified due to lack of data.

**Components:**

**Isooctadecanoic acid, reaction products with tetraethylenepentamine:**

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.  
GLP : yes

### Germ cell mutagenicity

**Product:**

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

### Carcinogenicity

**Product:**

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

### Reproductive toxicity

**Product:**

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

### STOT - single exposure

**Product:**

Assessment : Not classified due to lack of data.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 5220 XEP

Version 1.6      Revision Date: 06.10.2020      SDS Number: 000000009396      Date of last issue: 25.07.2018  
Date of first issue: 17.10.2011

---

### STOT - repeated exposure

**Product:**

Assessment : Not classified due to lack of data.

### Aspiration toxicity

**Product:**

No aspiration toxicity classification

### Further information

**Product:**

Remarks : No data available

---

## 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

### 12.2 Persistence and degradability

**Product:**

Biodegradability : Result: No data available

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

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



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 5220 XEP

Version	Revision Date:	SDS Number:	Date of last issue: 25.07.2018
1.6	06.10.2020	000000009396	Date of first issue: 17.10.2011

---

### 12.6 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

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

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

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

Not applicable for product as supplied.

---

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 5220 XEP

Version	Revision Date:	SDS Number:	Date of last issue: 25.07.2018
1.6	06.10.2020	000000009396	Date of first issue: 17.10.2011

---

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

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

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

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

US.TSCA : Substance(s) not listed on TSCA inventory

### 15.2 Chemical safety assessment

No information available.

---

## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# LANXESS

Energizing Chemistry

## ANDEROL 5220 XEP

Version	Revision Date:	SDS Number:	Date of last issue: 25.07.2018
1.6	06.10.2020	000000009396	Date of first issue: 17.10.2011

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