according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name : ANDEROL 5680 XEP

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

Use of the Sub- : Lubricant

stance/Mixture

Recommended restrictions

on use

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

:

Company: <u>Manufacturer</u>

Anderol Specialty Lubricants Groot Egtenrayseweg 23

5928 PA Venlo Netherlands

Telephone: +31-77 396 0340

Supplier

LANXESS Solutions UK Ltd. Tenax Road, Trafford Park

Manchester United Kingdom M17 1WT

Customer Service: +44 161 875 3800

Prepared by Product Safety Department

(US) +1 866-430-2775

Further information for the safety data sheet: MSDSRe-

quest@lanxess.com

1.4 Emergency telephone number

Emergency telephone

number: +44 (0) 1235 239 670 (NCEC)

For additional emergency telephone numbers see section 16 of

the Safety Data Sheet.

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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 pentasul-

fide,

propoxylated, esterified with diphosphorous pentaoxide, 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 pentaoxide, 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.

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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. 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

For specialist advice physicians should contact the Poisons Treatment

Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances 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

for firefighters

Special protective equipment : 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 spe

No special restrictions on storage with other products.

Further information on stor-

age 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/m3

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

8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system

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

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves Gloves should

be discarded and replaced if there is any indication of degra-

dation or chemical breakthrough.

Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

No personal respiratory protective equipment normally re-

quired.

In case of mist, spray or aerosol exposure wear suitable per-

sonal respiratory protection and protective suit.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : yellow

Pour point : -36 °C

Flash point : 245 °C

Method: ASTM D 92

Density : 0.910 g/cm3 (15 °C)

Method: ASTM D 1298

Viscosity

Viscosity, kinematic : 642.7 mm2/s (40 °C)

Method: ASTM D 445

60.8 mm2/s (100 °C) Method: ASTM D 445

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9.2 Other information

Flammability (liquids) : No data available

Oxidizing potential : No information available.

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

Exposure to moisture Contamination

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Carbon oxides

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 : 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.

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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.

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- As- : Not classified due to lack of data.

sessment

Carcinogenicity

Product:

Carcinogenicity - Assess-

ment

: Not classified due to lack of data.

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Reproductive toxicity

Product:

Reproductive toxicity - As-

sessment

: Not classified due to lack of data.

STOT - single exposure

Product:

Not classified due to lack of data. Assessment

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 : Remarks: No data available

aquatic invertebrates

12.2 Persistence and degradability

Product:

: Result: No data available Biodegradability

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

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Mobility Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

Product:

mation

Additional ecological infor- : 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 dis-

posal company.

Contaminated packaging Empty remaining contents.

Empty containers should be taken to an approved waste han-

dling 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 regu-

lations.

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

Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

REACH - 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

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

: 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.

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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

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.

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