ANDEROL 7320 FG



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1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : ANDEROL 7320 FG

Synonyms: Synthetic Lubricant Formulation

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

Use of the : Lubricant

Substance/Mixture

Recommended restrictions

on use

: Reserved for industrial and professional use.

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

LANXESS Pte. Ltd.

#07-10/18 ICON@IBP Tower B, 3A

Singapore Singapore 609935

Telephone: (65) 6725 5888

Prepared by Product Safety Department

(US) +1 866-430-2775

Further information for the safety data sheet :

MSDSRequest@lanxess.com

Emergency telephone number

Emergency telephone

number: +65 3158 1074

For additional emergency telephone numbers see section 16 of

the Safety Data Sheet.

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2. HAZARDS IDENTIFICATION

GHS Classification

Long-term (chronic) aquatic

hazard

: Category 3

GHS label elements

Hazard pictograms : None

Signal word : None

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention :

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
N-1-naphthylaniline	90-30-2	>= 0.25 - < 1
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine	110-25-8	>= 0.25 - < 1
2,6-di-tert-butyl-p-cresol	128-37-0	>= 0.25 - < 1

4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

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.

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> Wash off with soap and plenty of water. If symptoms persist, call a physician.

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.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

: None known.

Notes to physician : For specialist advice physicians should contact the Poisons

Information Service.

5. FIREFIGHTING MEASURES

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

cumstances and the surrounding environment.

Specific hazards during fire-

fighting

: Burning produces noxious and toxic fumes.

Specific extinguishing meth-

ods

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.

Special protective equipment: In the event of fire, wear self-contained breathing apparatus, for firefighters

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec: : tive equipment and emergency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Environmental precautions

Try to prevent the material from entering drains or water

courses.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

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Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close

to the workstation location.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an ap-

proved filter.

Hand protection

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves

Gloves should be discarded and replaced if there is any indi-

cation of degradation or chemical breakthrough.

Before removing gloves clean them with soap and water.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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No data

Appearance liquid Colour yellow Odour characteristic Odour Threshold No data рН No data

Melting point/freezing point Initial boiling point/boiling

range No data

Flash point 271 ℃ Method: Cleveland open cup ASTM D 92

Evaporation rate No data Flammability(solid,gas) No data

Upper/lower flammability and

explosive limit No data Vapour pressure No data Vapour density No data Density 0.999 g/cm3

Solubility Not soluble in water

Partition coefficient: n-

No data octanol/water Auto-ignition temperature No data Decomposition temperature : No data

Viscosity, kinematic 335.3 mm2/s (40 °C)

10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : No decomposition if stored and applied as directed.

tions

Possibility of hazardous reac- : No decomposition if used as directed.

Conditions to avoid No data available

> Exposure to moisture Contamination

Incompatible materials Acids

Bases

Oxidizing agents

Hazardous decomposition

Carbon oxides

products

Nitrogen oxides (NOx)

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11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

N-1-naphthylaniline:

Acute oral toxicity : LD50 (Rat): 1,625 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

2,6-di-tert-butyl-p-cresol: LD50 (Rat, male and female): > 2,930

Acute oral toxicity : mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

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:

N-1-naphthylaniline:

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

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

Species : Rabbit

Result : No 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:

N-1-naphthylaniline:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

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

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitisation

Components:

N-1-naphthylaniline:

Test Type : Maximisation Test Species : Guinea pig

Result : Probability or evidence of low to moderate skin sensitisation

rate in humans

Test Type : Patch Test

Species : Humans

Result : Probability or evidence of low to moderate skin sensitisation

rate in humans

Test Type : Maximisation Test

Species : Guinea pig

Result : Probability or evidence of low to moderate skin sensitisation

rate in humans

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

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

N-1-naphthylaniline:

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Chinese Hamster Ovary (CHO)

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo : Test Type: in vivo assay

Species: Mouse (male)

Result: negative

Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects., Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

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

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation

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Result: negative

Test Type: Chromosome aberration test in vitro

Result: Conflicting results have been seen in different studies.

Test Type: unscheduled DNA synthesis assay

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse (male and female)

Cell type: Bone marrow

Method: Mutagenicity (micronucleus test)

Result: negative

Test Type: in vivo assay Species: Rat (male) Cell type: Bone marrow Application Route: Oral

Method: Mutagenicity (in vivo mammalian bone-marrow cyto-

genetic test, chromosomal analysis)

Result: negative

Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

N-1-naphthylaniline:

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Components:

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

Reproductive toxicity - As-

sessment

: No toxicity to reproduction No effects on or via lactation

STOT - repeated exposure

Components:

N-1-naphthylaniline:

Exposure routes : Oral

Target Organs : Liver, Kidney

Assessment : May cause damage to organs through prolonged or repeated

exposure.

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: Oral Exposure routes

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:

Remarks No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

Remarks: No data available

Components:

N-1-naphthylaniline:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.44 mg/l

> Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.68 mg/l

Exposure time: 48 h Test Type: semi-static test Analytical monitoring: yes

Toxicity to microorganisms EC50 (Protozoa): 2 mg/l

Exposure time: 48 h

EC50 (Bacteria): > 10,000 mg/l

Exposure time: 3 h

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0.02 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Analytical monitoring: yes

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

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0.07 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Analytical monitoring: yes

GLP: yes

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Persistence and degradability

Product:

Biodegradability : Result: No data available

Components:

N-1-naphthylaniline:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 100 mg/l

Result: According to the results of tests of biodegradability this product is not readily biodegradable. Biodegradation: 0 %

Exposure time: 28 d

Method: OECD Test Guideline 301

GLP: yes

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

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 50 mg/l

Result: According to the results of tests of biodegradability

this product is not readily biodegradable.

Biodegradation: 4.5 % Exposure time: 28 d

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

N-1-naphthylaniline:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Exposure time: 56 d Temperature: 25 °C Concentration: 0.1 mg/l

Bioconcentration factor (BCF): 427 - 2,730

Partition coefficient: n-

octanol/water

log Pow: 4.28

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

Bioaccumulation : Species: Cyprinus carpio (Carp)

Exposure time: 56 d Temperature: 25 ℃ Concentration: 0.05 mg/l

Bioconcentration factor (BCF): 230 - 2,500

Partition coefficient: n-

octanol/water

log Pow: 5.1 GLP: yes

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Mobility in soil

Product:

Mobility : Remarks: No information available

Other adverse effects

Product:

Results of PBT and vPvB

assessment

: This mixture contains no substance considered to be persis-

tent, bioaccumulating and toxic (PBT).

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. REGULATORY INFORMATION

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inven-tory compliance.

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

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

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AICS : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : Not 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 : Not in compliance with the inventory

US.TSCA : Not On TSCA Inventory

16. OTHER INFORMATION

Emergency Phone Number

Europe:	All European Countries	+44 (0) 1235 239 670 (NCEC)
Asia Pacific:	East / South East Asia – Regional Number	+65 3158 1074 (NCEC)
<u>. 1014 : 4011101</u>	Australia	+61 2 8014 4558
	New Zealand	+64 9929 1483 (NCEC)
	China	+86 512 8090 3042 (NCEC)
	Taiwan	+886 2 8793 3212 (NCEC)
	Japan	+81 3 4578 9341 (NCEC)
	Indonesia	007 803 011 0293 (NCEC)
	Malaysia	+60 3 6207 4347 (NCEC)
	Thailand	001 800 120 666 751 (NCEC)
	Korea	+65 3158 1285 (NCEC)
	Vietnam	+84 8 4458 2388 (NCEC)
	India	+65 3158 1198 (NCEC)
	Pakistan	+65 3158 1329 (NCEC)
	Philippines	+65 3158 1203 (NCEC)
	Sri Lanka	+65 3158 1195 (NCEC)
	Bangladesh	+65 3158 1200 (NCEC)
Middle East / Africa:		+44 (0) 1235 239 671 (NCEC)
North America	United States of America (USA)	(800) 424-9300 (CHEMTREC)
	Canada	(800) 424-9300 (CHEMTREC)

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Latin America	Mexico	+52 555 004 8763 (NCEC)
	Brazil	+55 11 3197 5891 (NCEC)
	Chile	+56 2 2582 9336 (NCEC)
	All other countries	+44 (0) 1235 239 670 (NCEC)

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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