

# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: ANDEROL 486

SYNTHETIC LUBRICATING OIL

Product Use Description: Lubricant

Company: <u>Manufacturer</u>

Anderol Specialty Lubricants, a division of Lanxess Solutions US Inc.

215 Merry Lane East Hanover, NJ

07936

United States of America (USA)

Telephone: +1 203-573-4596, Toll Free: +1 888-263-3765

Email: msdsrequest@chemtura.com

Emergency telephone CHEMTREC: (24 hours) 800-424-9300

number:

: US: 800-292-5898 (Technical inquiries)

For additional emergency telephone numbers see section 16 of the Safety

Data Sheet.

Prepared by <u>Product Safety Department</u>

(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

## **SECTION 2. HAZARDS IDENTIFICATION**

Form	liquid
Colour	clear
Odour	hydrocarbon-like

### **GHS Classification**

Skin sensitisation : Category 1
Acute aquatic toxicity : Category 3
Chronic aquatic toxicity : Category 3

#### **GHS** label elements

Signal word : Warning

SAP 6.0 SDS 2012-2 NA GHS 1 / 12 SDS Number: 400000002040



# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

Hazard pictograms

**(!**)

Hazard statements : H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Other hazards None

Precautionary statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272 Contaminated work clothing should not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Carcinogenicity:

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

# **Hazardous components**

Chemical name	CAS-No.	Concentration (%)
Rape oil	8002-13-9	>= 5 - < 10 %
N-1-naphthylaniline	90-30-2	>= 0.25 - < 1 %
triphenyl phosphate	115-86-6	>= 0.1 - < 0.25 %

### **SECTION 4. FIRST AID MEASURES**

If inhaled : If inhaled

Move to fresh air.

If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

In case of bluish discolouration (lips, ear lobes, fingernails),

give oxygen as quickly as possible.



# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

If symptoms persist, call a physician.

In case of skin contact : In case of skin contact

Wash off with soap and water.

Remove contaminated clothing and shoes. Wash contaminated clothing before re-use.

Get medical attention if irritation develops and persists.

In case of eye contact : In case of eye contact

Rinse thoroughly with plenty of water, also under the eyelids.

If eye irritation persists, consult a specialist.

If swallowed, DO NOT induce vomiting.

Consult a physician if necessary.

Most important symptoms and effects, both acute and

delayed

Notes to physician

: No information available.

: No information available.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Carbon dioxide (CO2)

Dry powder Foam

Alcohol-resistant foam

Water mist

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Burning produces noxious and toxic fumes.

Specific extinguishing

methods

: In the event of fire, cool tanks with water spray.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation.

SAP 6.0 SDS 2012-2 NA GHS 3/12 SDS Number: 400000002040





# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

Environmental precautions : Should not be released into the environment.

Do not contaminate water.

Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

practice.

Keep container closed when not in use. Do not use pressure to empty drums.

Ensure all equipment is electrically grounded before beginning

transfer operations.

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

place.

Materials to avoid : Strong acids and strong bases

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Rape oil	8002-13-9	TWA (mist - total)	10 mg/m3	NIOSH REL
		TWA (mist - respirable)	5 mg/m3	NIOSH REL
		PEL (Total dust)	10 mg/m3	CAL PEL
		PEL (respirable dust fraction)	5 mg/m3	CAL PEL
N-1-naphthylaniline	90-30-2	TWA	10 ml/m3	ACGIH
triphenyl phosphate	115-86-6	TWA	3 mg/m3	ACGIH
		TWA	3 mg/m3	OSHA Z-1
		TWA	3 mg/m3	OSHA P0
		TWA	3 mg/m3	NIOSH REL
		PEL	3 mg/m3	CAL PEL



# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

Personal protective equipment

Respiratory protection : Breathing apparatus needed only when aerosol or mist is

formed.

In the case of vapour formation use a respirator with an

approved filter.

Hand protection

Remarks : Neoprene gloves

Eye protection : Safety glasses with side-shields

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Hygiene measures : Avoid contact with skin, eyes and clothing.

Provide adequate ventilation.

Do not breathe dust or spray mist.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : clear

Odor : hydrocarbon-like pH : No data available

Pour point : -45 °C

Method: No information available.

Flash point : 143 °C

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative density : No data available
Density : 0.8795 g/cm3

Solubility(ies)

Water solubility : slightly soluble
Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : No data available

Viscosity



# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

Viscosity, kinematic : 61 - 71 mm2/s (100 °C)

Method: ASTM D 445 No data available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Conditions to avoid : Heat

Incompatible materials : Strong acids and strong bases

Hazardous decomposition

products

Carbon oxides

### **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

**Product:** 

Acute dermal toxicity : Acute toxicity estimate: 2,798 mg/kg

Method: Calculation method

**Components:** 

N-1-naphthylaniline:

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

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

triphenyl phosphate:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 200 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit, male and female): > 7,900 mg/kg

SAP 6.0 SDS 2012-2 NA GHS 6/12 SDS Number: 400000002040



# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

#### Skin corrosion/irritation

#### Components:

N-1-naphthylaniline:
Species: Rabbit
Method: Draize Test
Result: No skin irritation

## triphenyl phosphate:

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

# Serious eye damage/eye irritation

### Components:

# N-1-naphthylaniline:

Species: Rabbit

Result: No eye irritation

Method: OEĆD Test Guideline 405

# triphenyl phosphate:

Species: Rabbit Result: No eye irritation

Method: OECD Test Guideline 405

GLP: yes

## Respiratory or skin sensitisation

### Components:

# N-1-naphthylaniline:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: May cause sensitisation by skin contact. Result: May cause sensitisation by skin contact.

Test Type: Patch Test Species: Human

Assessment: May cause sensitisation by skin contact. Result: May cause sensitisation by skin contact.

#### triphenyl phosphate:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

GLP: yes



# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

## 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.

triphenyl phosphate:

Genotoxicity in vitro

: Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

: Test Type: in vitro assay

Metabolic activation: with and without metabolic activation

Result: negative

: Test Type: Unscheduled DNA synthesis (UDS)

Result: negative

Germ cell mutagenicity -

Assessment

: In vitro tests did not show mutagenic effects

Carcinogenicity

**Components:** 

N-1-naphthylaniline:

Carcinogenicity - Assessment

: Animal testing did not show any carcinogenic effects.

triphenyl phosphate:

Carcinogenicity - Assessment

: Animal testing did not show any carcinogenic effects.

Reproductive toxicity

**Components:** 

Assessment

triphenyl phosphate:

Reproductive toxicity -

oxicity - : No toxicity to reproduction

SAP 6.0 SDS 2012-2 NA GHS 8/12 SDS Number: 400000002040



# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

## 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.

triphenyl phosphate: Exposure routes: Oral

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

repeated exposure.

#### **Further information**

**Product:** 

Remarks: There is no data available for this product.

#### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity effects**

Toxicity to fish (Product) : Remarks:

No data available

Toxicity to daphnia and other : Remarks:

aquatic invertebrates

(Product)

No data available

Toxicity to algae (Product) : Remarks:

No data available

Toxicity to bacteria

N-1-naphthylaniline

(Component) Exposure time: 48 h

Species: Protozoa

: EC50: 2 mg/l

EC50: > 10,000 mg/lExposure time: 3 h Species: Bacteria

Toxicity to fish (Chronic toxicity)

triphenyl phosphate (Component)

: NOEC: 0.037 mg/l

Exposure time: 30 d

Species: Oncorhynchus mykiss (rainbow trout)

9/12 SAP 6.0 SDS 2012-2 NA GHS SDS Number: 40000002040



# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

N-1-naphthylaniline : NOEC: 0.02 mg/l Exposure time: 21 d (Component)

Species: Daphnia magna (Water flea)

Analytical monitoring: yes

Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:

No data available

: Remarks: Mobility (Product)

No data available

Biodegradability

N-1-naphthylaniline : aerobic

(Component) Result: According to the results of tests of biodegradability this

product is not readily biodegradable.

Method: OECD Test Guideline 301

triphenyl phosphate

: aerobic (Component)

Result: Readily biodegradable.

83 - 94 %

Method: OECD Test Guideline 301

# **Ecotoxicology Assessment**

Results of PBT assessment (Product)

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological

: There is no data available for this product. information (Product)

### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : In accordance with local and national regulations.

Contaminated packaging : Do not burn, or use a cutting torch on, the empty drum.

### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

10 / 12 SAP 6.0 SDS 2012-2 NA GHS SDS Number: 40000002040



# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

#### 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.

# **National Regulations**

#### **49 CFR**

Not regulated as a dangerous good

## **SECTION 15. REGULATORY INFORMATION**

# **EPCRA - Emergency Planning and Community Right-to-Know Act**

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
1-naphthylamine	134-32-7	100	*
2-naphthylamine	91-59-8	10	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	
		(lbs)	(lbs)
aniline	62-53-3	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Respiratory or skin sensitisation

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SAP 6.0 SDS 2012-2 NA GHS 11/12 SDS Number: 400000002040





# **ANDEROL 486**

Version: 1.3 Revision Date: 12/08/2017 Print Date: 05/22/2018

California Prop 65 : This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

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 inventory compliance.

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

All components of this product are on the Canadian DSL

AICS
On the inventory, or in compliance with the inventory

NZIOC
On the inventory, or 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

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 On TSCA Inventory

#### **SECTION 16. OTHER INFORMATION**

## **Further information**

### Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
Mexico:		+52 555 004 8763

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.

SAP 6.0 SDS 2012-2 NA GHS 12 / 12 SDS Number: 400000002040