

# **ANDEROL 750**

Version: 1.6 Revision Date: 10/12/2018 Print Date: 05/17/2019

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

Product name: ANDEROL 750

SYNTHETIC COMPRESSOR OIL - NSF

CATEGORY CODE: H2/REGISTRATION NO. 123761

Product Use Description: Lubricant

Synonyms: Synthetic Lubricant Formulation

Company: **Manufacturer** 

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

msdsrequest@chemtura.com Email: CHEMTREC: (24 hours) 800-424-9300

Emergency telephone

number:

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

For additional emergency telephone numbers see section 16 of the Safety

Data Sheet.

Prepared by **Product Safety Department** 

(US) +1 866-430-2775

MSDSRequest@lanxess.com

Recommended use of the chemical and restrictions on use

Recommended use Lubricant

## **SECTION 2. HAZARDS IDENTIFICATION**

Form	liquid	
Colour	amber	
Odour	mild	

#### **GHS Classification**

Short-term (acute) aquatic

: Category 3

hazard

Long-term (chronic) aquatic

: Category 3

hazard

1/16 SAP 6.0 SDS 2012-2 NA GHS SDS Number: 40000001992



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#### **GHS** label elements

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

Other hazards None

Other Hazardous Information

Precautionary statements : **Prevention:** 

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

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

# **Hazardous components**

Chemical name	CAS-No.	Concentration (%)
NJTS#: 46728100000-0002 - Proprietary amine		>= 0.25 - < 1 %
diphenylamine	122-39-4	>= 0.1 - < 0.25 %
2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol	118-82-1	>= 1 - < 2.5 %
N-1-naphthylaniline	90-30-2	>= 0.25 - < 1 %

#### **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. If symptoms persist, call a physician.



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: 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 : If swallowed, DO NOT induce vomiting.

Consult a physician if necessary.

Most important symptoms and effects, both acute and

delayed

Notes to physician

: None known.

: For specialist advice physicians should contact the Poisons

Information Service.

## **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.

**Environmental precautions** : Should not be released into the environment.

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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
NJTS#: 46728100000-0002 - Proprietary amine		TWA	10 ml/m3	ACGIH
diphenylamine	122-39-4	TWA	10 mg/m3	ACGIH
		TWA	10 mg/m3	OSHA P0
		TWA	10 mg/m3	NIOSH REL
		PEL	10 mg/m3	CAL PEL
N-1-naphthylaniline	90-30-2	TWA	10 ml/m3	ACGIH

## 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

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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

Colour : amber

Odour : mild

Odour Threshold : No data available

pH : No data available

Pour point : -9 °F / -23 °C

Method: No information available.

Boiling point/boiling range :  $> 752 \, ^{\circ}\text{F} / > 400 \, ^{\circ}\text{C}$ 

Flash point : 464 °F / 240 °C

Method: open cup

Evaporation rate : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 0.9450 - 0.9650 (60.1 °F / 15.6 °C)

Method: No information available.

Solubility(ies)

Water solubility : slightly soluble

Solubility in other solvents : No data available



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Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Self-Accelerating

decomposition temperature

(SADT)

Method: No information available.

Viscosity

Viscosity, dynamic : 135 - 165 mPa.s (104 - 212 °F / 40 - 100 °C)

Method: ASTM D 445

Viscosity, kinematic : No data available

Oxidizing potential : No information available.

Molecular weight : No data available

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

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

No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

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: 2,835 mg/kg

Method: Calculation method

#### **Components:**

NJTS#: 46728100000-0002 - Proprietary amine:

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

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

diphenylamine:

Acute oral toxicity : LD50 (Rat): 2,720 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol:

: LD50 (Rat, male and female): > 5,000 mg/kg Acute oral toxicity

Method: OECD Test Guideline 401

GLP: yes

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

Method: OECD Test Guideline 402

GLP: yes

N-1-naphthylaniline:

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

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

#### Skin corrosion/irritation

### **Components:**

NJTS#: 46728100000-0002 - Proprietary amine:

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

diphenylamine: Species: Rabbit

Result: Mild skin irritation

N-1-naphthylaniline:

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

## Serious eye damage/eye irritation

#### Components:

NJTS#: 46728100000-0002 - Proprietary amine:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

diphenylamine: Species: Rabbit

Result: Eye irritation

N-1-naphthylaniline: Species: Rabbit



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Result: No eye irritation

Method: OECD Test Guideline 405

# Respiratory or skin sensitisation

### **Components:**

NJTS#: 46728100000-0002 - Proprietary amine:

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

**diphenylamine:**Species: Guinea pig

Result: Does not cause skin sensitisation.

### 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

## Germ cell mutagenicity

### **Components:**

NJTS#: 46728100000-0002 - Proprietary amine:

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



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Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects., Tests on

bacterial or mammalian cell cultures did not show mutagenic

effects.

diphenylamine:

Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects.

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.

## Carcinogenicity

# Components:

NJTS#: 46728100000-0002 - Proprietary amine:

Carcinogenicity -

Assessment

: Animal testing did not show any carcinogenic effects.

diphenylamine:

Carcinogenicity -Assessment

: Not classifiable as a human carcinogen.

N-1-naphthylaniline:

Carcinogenicity -

Assessment

: Animal testing did not show any carcinogenic effects.

**IARC** No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

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#### Reproductive toxicity

# **Components:**

diphenylamine:

Reproductive toxicity - : No toxicity to reproduction Assessment : No toxicity to reproduction

### STOT - repeated exposure

### **Components:**

NJTS#: 46728100000-0002 - Proprietary amine:

Exposure routes: Oral Target Organs: Liver, Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

## N-1-naphthylaniline:

Exposure routes: Oral

Target Organs: Liver, Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

# Repeated dose toxicity

#### **Components:**

### diphenylamine:

Species: Mouse, male NOAEL: 1.7 mg/kg LOAEL: 93.8 mg/kg Application Route: Oral Exposure time: 90 d

Target Organs: Blood, Liver, Kidney

Species: Mouse, female NOAEL: 2.1 mg/kg LOAEL: 107 mg/kg Application Route: Oral Exposure time: 90 d

Target Organs: Blood, Liver, Kidney

### **Further information**

### **Product:**

Remarks: There is no data available for this product.

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

## **Ecotoxicity**

### **Product:**

Toxicity to fish :



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Remarks: No data available

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

Toxicity to algae

Remarks: No data available

**Components:** 

NJTS#: 46728100000-0002 - Proprietary amine:

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

M-Factor (Acute aquatic

toxicity)

: 1

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 0.02 mg/l

Exposure time: 21 d Analytical monitoring: yes

M-Factor (Chronic aquatic

toxicity)

1

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

Exposure time: 48 h

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

Exposure time: 3 h

diphenylamine:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2.2 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.2 mg/l

Exposure time: 48 h

2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol:

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): > 1,000

mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other : LC50 (Mysid shrimp): > 1,000 mg/l

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aquatic invertebrates Exposure time: 96 h

Test Type: static test

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

M-Factor (Acute aquatic

toxicity)

: 1

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 0.02 mg/l

Exposure time: 21 d Analytical monitoring: yes

M-Factor (Chronic aquatic

toxicity)

: 1

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

Exposure time: 48 h

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

Exposure time: 3 h

### Persistence and degradability

## **Components:**

NJTS#: 46728100000-0002 - Proprietary amine:

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

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.

SAP 6.0 SDS 2012-2 NA GHS 12 / 16 SDS Number: 400000001992



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Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301

GLP: yes

Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: No data available

**Components:** 

NJTS#: 46728100000-0002 - Proprietary amine:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 427 - 2,730

Exposure time: 56 d Temperature: 77 °F / 25 °C Concentration: 0.1 mg/l

Partition coefficient: n-

octanol/water

log Pow: 4.28

2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol:

Partition coefficient: n- : log Pow: 6.24 (68 °F / 20 °C)

octanol/water GLP: yes

N-1-naphthylaniline:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 427 - 2,730

Exposure time: 56 d Temperature: 77 °F / 25 °C Concentration: 0.1 mg/l

Partition coefficient: n-

octanol/water

log Pow: 4.28

Mobility in soil

**Product:** 

Mobility : Remarks: No data available

Other adverse effects

**Product:** 

Results of PBT and vPvB

assessment

This substance is not considered to be persistent,

bioaccumulating and toxic (PBT).

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I



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Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

В).

Additional ecological

information

: There is no data available for this 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**

#### **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**



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Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
1-naphthylamine	134-32-7	100	*

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

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

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

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

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.

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

n-Butene, homopolymer %

## California Prop. 65

WARNING: This product can expose you to chemicals including aniline, 1-naphthylamine, 2-naphthylamine, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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 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



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	ne inventory, or in compliance	-	

**KECI PICCS** On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory **IECSC** On the inventory, or in compliance with the inventory **TCSI 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.