

ANDEROL 465

Version: 1.0 Revision Date: 12/05/2014 Print Date: 04/21/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ANDEROL 465

Product Use Description: Lubricant

Company: <u>Manufacturer</u>

Anderol Specialty Lubricants, a division of Chemtura Corporation

215 Merry Lane East Hanover, NJ

07936

United States of America

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

Email: msdsrequest@chemtura.com

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

number:

. Chemtura Corporation Emergency Response: CHEMTURA: 800-292-5898

For additional emergency telephone numbers see section 16 of the Safety

Data Sheet.

Prepared by Product Safety Department

(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	
	oily	
Colour	clear	
Odour	mild	

GHS Classification

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

GHS Label element

Signal word : Warning

SAP 6.0 SDS 2012-2 NA GHS 1/10 SDS Number: 400000002004

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Hazard pictograms

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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:

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 identified as a carcinogen or potential

carcinogen by OSHA.

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 (%)
2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol	118-82-1	>= 1 - < 5 %
NJTS#: 46728100000-0002 - Proprietary amine		>= 0.1 - < 1 %
diphenylamine	122-39-4	>= 0.1 - < 1 %



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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.

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

: Sensitisation

: 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.

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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.

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

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

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

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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

oily

Color : clear Odor : mild

pH : No data available

pour point : -54 °C

Boiling point/boiling range : No data available

Flash point : $>= 238 \, ^{\circ}\text{C}$

Method: No information available.

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available

Relative density : 0.9100 - 0.9300No data available

Density : 0.91 - 0.93 g/cm3 (15 °C)

Method: No information available.

Solubility(ies)

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

octanol/water

Auto-ignition temperature : No data available

Viscosity

Viscosity, dynamic : 9.60 - 65 mPa.s (40 - 100 °C)

Method: ASTM D 445

Viscosity, kinematic : No data available

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SECTION 10. STABILITY AND REACTIVITY

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

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

Carbon oxides products

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity

(Product)

: Acute toxicity estimate: > 40 mg/l

Exposure time: 4 h

Method: Calculation method

Acute dermal toxicity

(Product)

: Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Skin irritation

NJTS#: 46728100000-0002 - : Species: Rabbit

Proprietary amine (Component)

Result: No skin irritation Method: Draize Test

diphenylamine (Component) : Species: Rabbit

Result: Mild skin irritation

Eye irritation

NJTS#: 46728100000-0002 - : Species: Rabbit

Proprietary amine (Component)

Result: No eye irritation

Method: OECD Test Guideline 405

diphenylamine (Component) : Species: Rabbit

Result: Mild eye irritation

Sensitisation

NJTS#: 46728100000-0002 - : Maximisation Test (GPMT)

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Proprietary amine

Species: Guinea pig

(Component)

Classification: May cause sensitisation by skin contact.

Result: May cause sensitisation by skin contact.

Patch Test Species: Human

Classification: May cause sensitisation by skin contact. Result: The product is a skin sensitiser, sub-category 1A.

diphenylamine (Component)

Species: Guinea pig

Result: Does not cause skin sensitisation.

Repeated dose toxicity

diphenylamine (Component)

Species: Mouse, male Application Route: Oral

Target Organs: Blood, Liver, Kidney

Exposure time: (90 d) NOEL: 1.7 mg/kg

Lowest observed effect level: 93.8 mg/kg

Species: Mouse, female Application Route: Oral

Target Organs: Blood, Liver, Kidney

Exposure time: (90 d) NOEL: 2.1 mg/kg

Lowest observed effect level: 107 mg/kg

CMR effects

NJTS#: 46728100000-0002 -

Proprietary amine (Component)

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

diphenylamine (Component)

: Carcinogenicity: Not classifiable as a human carcinogen.

Mutagenicity: Animal testing did not show any mutagenic effects.

Teratogenicity: No toxicity to reproduction Reproductive toxicity: No toxicity to reproduction

Further information (Product) : There is no o

: There is no data available for this product.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish (Product) : Remarks:

No data available

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Toxicity to daphnia and other

aquatic invertebrates

(Product)

: Remarks:

No data available

Toxicity to algae (Product) : Remarks:

No data available

Toxicity to bacteria

NJTS#: 46728100000-0002 - : EC50: 2 mg/l

Proprietary amine (Component)

Exposure time: 48 h Species: Protozoa

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NJTS#: 46728100000-0002 - : NOEC: 0.02 mg/l Exposure time: 21 d

Proprietary amine (Component)

Species: Daphnia magna (Water flea)

Analytical monitoring: yes

Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:

No data available

Mobility (Product) : Remarks:

No data available

Biodegradability

NJTS#: 46728100000-0002 - : aerobic

Proprietary amine

(Component)

Result: According to the results of tests of biodegradability this

product is not readily biodegradable.

0 %

Method: OECD Test Guideline 301

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment (Product)

SECTION 13. DISPOSAL CONSIDERATIONS

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

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

Disposal methods

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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

ADR

Not dangerous goods

RID

Not dangerous goods

MERCOSUR

Not dangerous goods

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : not rated

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

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : The following components are subject to reporting levels

established by SARA Title III, Section 302:

aniline 62-53-3 0.0013

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.

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US State Regulations

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

aniline 62-53-3

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

US.TSCA On TSCA Inventory

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

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

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 10 / 10 SDS Number: 400000002004