

**ANDEROL 423**

Version: 1.0

Revision Date: 12/05/2014

Print Date: 04/21/2015

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : ANDEROL 423

Product Use Description: Lubricant

Company:

Manufacturer

Anderol Specialty Lubricants, a division of Chemtura Corporation  
Groot Egtenrayseweg 23  
5928 PA Venlo  
Netherlands

Telephone: +31-77 396 0340

Supplier

Anderol Specialty Lubricants, a division of Chemtura Corporation  
215 Merry Lane  
East Hanover, NJ  
07936  
United States of America

Telephone: 973-887-7410

Emergency telephone  
number:

CHEMTREC: (24 hours) 800-424-9300

:  
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
Colour	amber
Odour	mild

**GHS Classification**

Not a hazardous substance or mixture.

**GHS Label element**

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Other hazards : None

Not a hazardous substance or mixture.

**Carcinogenicity:**

**IARC**

Group 3: Not classifiable as to its carcinogenicity to humans

2,6-di-tert-butyl-p-cresol 128-37-0

**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 (%)
Sulfonic acids, petroleum, barium salts	61790-48-5	$\geq 0.1$ - $< 1$ %
2,6-di-tert-butyl-p-cresol	128-37-0	$\geq 0.1$ - $< 1$ %

**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 discoloration (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 : None known.

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delayed  
Notes to physician : For specialist advice physicians should contact the Poisons  
Information Service.

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**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
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).

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**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : 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

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place.

Materials to avoid : Strong acids and strong bases

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

2,6-di-tert-butyl-p-cresol	128-37-0	TWA	10 mg/m3	OSHA P0
		TWA (Inhalable fraction and vapor)	2 mg/m3	ACGIH
		TWA (Inhalable fraction and vapor)	2 mg/m3	ACGIH
		TWA	10 mg/m3	NIOSH REL

**Engineering measures** : Effective exhaust ventilation system  
Ensure that eyewash stations and safety showers are close to the workstation location.

#### 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.  
Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : amber

Odor : mild

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pH : No data available  
pour point :  $\geq 58$  °C  
Method: No information available.

Boiling point/boiling range : No data available  
Flash point : 163 °C  
Method: Cleveland open cup

Upper explosion limit : No data available  
Lower explosion limit : No data available  
Vapour pressure : No data available  
Relative density : No data available  
Density : 0.94 g/cm<sup>3</sup>

Solubility(ies)

Water solubility : slightly soluble  
Partition coefficient: n-octanol/water : No data available  
Auto-ignition temperature : No data available

Viscosity  
Viscosity, dynamic : 1.40 - 6.0 mPa.s (37.8 - 98.89 °C)  
Method: ASTM D 445  
Viscosity, kinematic : 5.23 mm<sup>2</sup>/s (40 °C)  
Method: ASTM D 445

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**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 : Contamination  
Heat, flames and sparks.  
Incompatible materials : Strong acids and strong bases  
Hazardous decomposition products : Carbon oxides

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**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity

2,6-di-tert-butyl-p-cresol  
(Component)

: LD50: > 2,930 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401

Acute dermal toxicity

2,6-di-tert-butyl-p-cresol  
(Component)

: LD50: > 2,000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 402

Skin irritation

2,6-di-tert-butyl-p-cresol  
(Component)

: Species: Rabbit  
Result: No skin irritation

Eye irritation

2,6-di-tert-butyl-p-cresol  
(Component)

: Species: Rabbit  
Result: No eye irritation

Sensitisation

Sulfonic acids, petroleum,  
barium salts (Component)  
2,6-di-tert-butyl-p-cresol  
(Component)

: Classification: May cause sensitisation by skin contact.  
Species: Guinea pig  
Classification: Did not cause sensitisation on laboratory animals.

CMR effects

2,6-di-tert-butyl-p-cresol  
(Component)

: Mutagenicity: Animal testing did not show any mutagenic effects.  
Teratogenicity: No effects on or via lactation  
Reproductive toxicity: No toxicity to reproduction

Further information (Product) : 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

**Elimination information (persistence and degradability)**

Bioaccumulation (Product) : Remarks:  
No data available

Mobility (Product) : Remarks:  
No data available

Biodegradability  
2,6-di-tert-butyl-p-cresol (Component) : aerobic  
Result: According to the results of tests of biodegradability this product is not readily biodegradable.  
4.5 %

**Further information on ecology**

**Ecotoxicology Assessment**

Results of PBT assessment (Product)  
This substance is not considered to be persistent, bioaccumulating and toxic (PBT).  
Additional ecological information (Product) : There is no data available for this product.

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**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.

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**SECTION 14. TRANSPORT INFORMATION**

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**MERCOSUR**



## SAFETY DATA SHEET



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Not dangerous goods

**DOT**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

#### SECTION 15. REGULATORY INFORMATION

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

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA304 Reportable Quantity**

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

**SARA 311/312 Hazards** : No SARA Hazards

**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.

**US State Regulations**

**California Prop 65**

WARNING! This product contains a chemical known to the State of California to cause cancer.

1,4-dioxane

123-91-1

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

**US.TSCA**

On TSCA Inventory

**DSL**

This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.

**AICS**

On the inventory, or 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**

Not in compliance with the inventory

**IECSC**

On the inventory, or in compliance with the inventory



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**SECTION 16. OTHER INFORMATION**

**Further information**

**Other Emergency Phone Number**

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+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.