



# SAFETY DATA SHEET



## ROYCO 481 MIL-PRF-6081D

Version: 1.2

Revision Date: 05/26/2017

Print Date: 06/02/2017

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ROYCO 481 MIL-PRF-6081D

Product Use Description: Lubricant

Company: Manufacturer  
Anderol Specialty Lubricants, a division of Chemtura Corporation  
215 Merry Lane  
East Hanover, NJ  
07936  
United States of America (USA)  
  
Telephone: +1 203-573-4596, Toll Free: +1 888-263-3765

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300  
:  
  
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 | light yellow     |
| Odour  | hydrocarbon-like |

#### GHS Classification

Aspiration hazard : Category 1  
Acute aquatic toxicity : Category 3  
Chronic aquatic toxicity : Category 3

#### GHS label elements

Signal word : **Danger**

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Hazard pictograms



Hazard statements

: H304 May be fatal if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects.

Other hazards

: None

Precautionary statements

: **Prevention:**  
P273 Avoid release to the environment.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
**Storage:**  
P405 Store locked up.  
**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 (%) |
|--|------------|-------------------|
| Distillates (petroleum), hydrotreated light naphthenic | 64742-53-6 | >= 70 - < 90 %    |
| Paraffin oils (petroleum), catalytic dewaxed light     | 64742-71-8 | >= 30 - < 50 %    |
| 2,6-di-tert-butyl-p-cresol                             | 128-37-0   | >= 0.1 - < 1 %    |

**SECTION 4. FIRST AID MEASURES**

If inhaled

: If inhaled



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- 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 delayed : No information available.
- Notes to physician : No information available.

#### 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.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, : Use personal protective equipment.



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protective equipment and  
emergency procedures

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

| Components  | CAS-No.    | Form of exposure               | Permissible concentration | Basis     |
|---|------------|--------------------------------|---------------------------|-----------|
| Distillates (petroleum),<br>hydrotreated light naphthenic | 64742-53-6 | TWA (Mist)                     | 5 mg/m3                   | OSHA Z-1  |
|   |            | TWA<br>(Inhalable<br>fraction) | 5 mg/m3                   | ACGIH     |
|   |            | TWA (Mist)                     | 5 mg/m3                   | NIOSH REL |
|   |            | ST (Mist)                      | 10 mg/m3                  | NIOSH REL |
|   |            | TWA (Mist)                     | 5 mg/m3                   | OSHA P0   |
|   |            | PEL<br>(particulate)           | 5 mg/m3                   | CAL PEL   |
| Paraffin oils (petroleum),<br>catalytic dewaxed light     | 64742-71-8 | TWA<br>(Inhalable<br>fraction) | 5 mg/m3                   | ACGIH     |
| 2,6-di-tert-butyl-p-cresol                                | 128-37-0   | TWA                            | 10 mg/m3                  | OSHA P0   |



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|  |  |   |          |           |
|--|--|---|----------|-----------|
|  |  | TWA<br>(Inhalable<br>fraction and<br>vapor) | 2 mg/m3  | ACGIH     |
|  |  | TWA<br>(Inhalable<br>fraction and<br>vapor) | 2 mg/m3  | ACGIH     |
|  |  | TWA   | 10 mg/m3 | NIOSH REL |
|  |  | PEL   | 10 mg/m3 | CAL PEL   |

### 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 : Neoprene gloves
- 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 : light yellow
- Odor : hydrocarbon-like
- Odour Threshold : No data available
- pH : No data available
- Melting point/range :  
Not applicable
- Boiling point/boiling range : No data available
- Evaporation rate : No data available
- Flash point : 143 °C  
Method: open cup
- Upper explosion limit : No data available



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Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 0.88

Density : No data available

### Solubility(ies)

Water solubility : slightly soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Viscosity

Viscosity, kinematic : 10 mm<sup>2</sup>/s (40 °C)

## 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 oral toxicity  
2,6-di-tert-butyl-p-cresol  
(Component) : LD50: > 2,930 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401



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

: Species: Guinea pig  
Classification: Did not cause sensitisation on laboratory animals.

Aspiration toxicity  
Distillates (petroleum),  
hydrotreated light  
naphthenic (Component)

: May be fatal if swallowed and enters airways.

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

Toxicity to daphnia and other  
aquatic invertebrates  
(Product)

: Remarks:  
No data available

Toxicity to algae (Product)

: Remarks:



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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 %

#### 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.

### 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.





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### 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

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** : Acute Health Hazard

**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.

Distillates (petroleum), hydrotreated light 64742-47-8

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

|         |   |
|---------|---|
| DSL     | Not in compliance with the inventory                  |
| 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 |
| IECSC   | On the inventory, or in compliance with the inventory |
| TCSI    | On the inventory, or in compliance with the inventory |
| US.TSCA | On TSCA Inventory                                     |

## SECTION 16. OTHER INFORMATION

### Further information

#### Other Emergency Phone Number



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

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