



# SAFETY DATA SHEET

## ROYCO 581 MIL-C-6529 T1

Version: 1.1

Revision Date: 01/08/2015

Print Date: 04/14/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ROYCO 581 MIL-C-6529 T1  
PRESERVATIVE CONCENTRATE FOR AIRCRAFT ENGINES

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

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300  
:  
: 703-527-3887  
  
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	slight hydrocarbon-like

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS Label element

Other hazards : None

Not a hazardous substance or mixture.

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**Carcinogenicity:**

<b>IARC</b>	Group 3: Not classifiable as to its carcinogenicity to humans Distillates (petroleum), 64742-54-7 hydrotreated heavy paraffinic
<b>OSHA</b>	2,6-di-tert-butyl-p-cresol 128-37-0 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.
<b>NTP</b>	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 (%)
Residual oils (petroleum), solvent-refined	64742-01-4	>= 70 - < 90 %
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	>= 5 - < 10 %
2,6-di-tert-butyl-p-cresol	128-37-0	>= 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 delayed	: None known.
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.

### 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 : 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

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Residual oils (petroleum), solvent-refined	64742-01-4	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA P0
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA P0
2,6-di-tert-butyl-p-cresol	128-37-0	TWA	10 mg/m <sup>3</sup>	OSHA P0
		TWA (Inhalable fraction and vapor)	2 mg/m <sup>3</sup>	ACGIH
		TWA (Inhalable fraction and vapor)	2 mg/m <sup>3</sup>	ACGIH
		TWA	10 mg/m <sup>3</sup>	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

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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 : slight hydrocarbon-like

pH : No data available

Melting point/range :  
Not applicable

Boiling point/boiling range : No data available

Flash point : 284 °C  
Method: open cup

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative density : 0.89

Solubility(ies)

Water solubility : slightly soluble

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

Auto-ignition temperature : No data available

Viscosity

Viscosity, kinematic : 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 : Contamination

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Heat, flames and sparks.

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

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 (Product) : No aspiration toxicity classification

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.

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### 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:  
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.

### 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



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### 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

### 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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

#### US.TSCA

On TSCA Inventory





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<b>DSL</b>	All components of this product are on the Canadian DSL.
<b>AICS</b>	On the inventory, or in compliance with the inventory
<b>NZIoC</b>	Not in compliance with the inventory
<b>ENCS</b>	Not in compliance with the inventory
<b>KECI</b>	On the inventory, or in compliance with the inventory
<b>PICCS</b>	On the inventory, or in compliance with the inventory
<b>IECSC</b>	On the inventory, or in compliance with the inventory

### 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.