



# SAFETY DATA SHEET

## ROYCO 500 MIL-PRF-23699

Version: 1.1

Revision Date: 01/07/2015

Print Date: 04/22/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ROYCO 500 MIL-PRF-23699  
SYNTHETIC TURBINE ENGINE OIL

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  | mild   |

#### GHS Classification

Skin sensitisation : Category 1  
Reproductive toxicity : Category 2  
Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Liver, Kidney)  
Acute aquatic toxicity : Category 3  
Chronic aquatic toxicity : Category 3

#### GHS Label element

Signal word : **Warning**

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Hazard pictograms :



Hazard statements :

H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.  
H412 Harmful to aquatic life with long lasting effects.

Other hazards :

None

Precautionary statements :

**Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe 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.  
P281 Use personal protective equipment as required.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.

**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.



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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

| Chemical Name                | CAS-No.   | Concentration (%) |
|------------------------------|-----------|-------------------|
| N-1-naphthylaniline          | 90-30-2   | >= 1 - < 5 %      |
| tris(methylphenyl) phosphate | 1330-78-5 | >= 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 : Sensitisation
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

### 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



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- 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

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components          | CAS-No. | Form of exposure | Permissible concentration | Basis |
|---------------------|---------|------------------|---------------------------|-------|
| N-1-naphthylaniline | 90-30-2 | TWA              | 10 ml/m3                  | ACGIH |

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



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### 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
- pH : No data available
- Melting point/range :  
Not applicable
- Boiling point/boiling range : No data available
- Flash point : 254 °C  
Method: open cup
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : No data available
- Relative density : 1
- 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

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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<br>Heat, flames and sparks.                   |
| Incompatible materials             | : | Strong acids and strong bases                               |
| Hazardous decomposition products   | : | Carbon oxides   |

### SECTION 11. TOXICOLOGICAL INFORMATION

|   |   |   |
|---|---|---|
| Acute oral toxicity (Product)                               | : | Acute toxicity estimate: > 5,000 mg/kg<br>Method: Calculation method  |
| Acute dermal toxicity<br>N-1-naphthylaniline<br>(Component) | : | LD50 Dermal: > 5,000 mg/kg<br>Species: Rabbit   |
| Skin irritation<br>N-1-naphthylaniline<br>(Component)       | : | Species: Rabbit<br>Result: No skin irritation<br>Method: Draize Test  |
| Eye irritation<br>N-1-naphthylaniline<br>(Component)        | : | Species: Rabbit<br>Result: No eye irritation<br>Method: OECD Test Guideline 405   |
| Sensitisation<br>N-1-naphthylaniline<br>(Component)         | : | Maximisation Test (GPMT)<br>Species: Guinea pig<br>Classification: May cause sensitisation by skin contact.<br>Result: May cause sensitisation by skin contact.<br><br>Patch Test<br>Species: Human<br>Classification: May cause sensitisation by skin contact. |



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Result: The product is a skin sensitiser, sub-category 1A.

Aspiration toxicity (Product) : No aspiration toxicity classification

### CMR effects

N-1-naphthylaniline (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.

tris(methylphenyl) phosphate (Component) : Carcinogenicity: Animal testing did not show any carcinogenic effects.  
Mutagenicity: In vitro tests did not show mutagenic effects  
Teratogenicity: Did not show teratogenic effects in animal experiments.  
Reproductive toxicity: Suspected of damaging fertility or the unborn child.

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:  
No data available

Toxicity to bacteria  
N-1-naphthylaniline (Component) : EC50: 2 mg/l  
Exposure time: 48 h  
Species: Protozoa  
  
EC50: > 10,000 mg/l  
Exposure time: 3 h  
Species: Bacteria

tris(methylphenyl) phosphate (Component) : EC50: > 100 mg/l  
Exposure time: 3 h  
Species: activated sludge



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### Respiration inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

N-1-naphthylaniline : NOEC: 0.02 mg/l  
(Component) Exposure time: 21 d  
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 (Product) : Result: No data available

### 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

Not dangerous goods

### DOT

Not dangerous goods





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### IATA

Not dangerous goods

### IMDG

Not dangerous goods

## SECTION 15. REGULATORY INFORMATION

**TSCA list** : Not relevant  
Not relevant

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

#### CERCLA Reportable Quantity

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

\*: 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               | *                           |

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : Chronic Health Hazard  
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.

|                 |          |
|-----------------|----------|
| aniline         | 62-53-3  |
| 1-naphthylamine | 134-32-7 |
| 2-naphthylamine | 91-59-8  |
| ethylbenzene    | 100-41-4 |

**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> | On the inventory, or in compliance with the inventory   |
| <b>ENCS</b>  | On the inventory, or 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.