

# Royco LGF (Red)

Version: 1.1 Revision Date: 12/18/2014 Print Date: 11/04/2015

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: Royco LGF (Red)

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 <u>Product Safety Department</u>

(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	red

## **GHS Classification**

Eye irritation : Category 2A
Aspiration hazard : Category 1
Acute aquatic toxicity : Category 3
Chronic aquatic toxicity : Category 3

**GHS Label element** 

Signal word : Danger

SAP 6.0 SDS 2012-2 NA GHS 1/11 SDS Number: 400000001743

# ANDEROL® Specialty Lubricants

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Hazard pictograms





Hazard statements : H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Other hazards : None

Precautionary statements : **Prevention**:

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER or doctor/ physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. P331 Do NOT induce vomiting.

P337 + P313 If eye irritation persists: Get medical advice/

attention. Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Carcinogenicity:

IARC Group 3: Not classifiable as to its carcinogenicity to humans

Distillates (petroleum), 64742-46-7

hydrotreated middle

Distillates (petroleum), 64742-47-8

hydrotreated light

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**

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Chemical Name	CAS-No.	Concentration (%)
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	>= 50 - < 70 %
Distillates (petroleum), hydrotreated middle	64742-46-7	>= 10 - < 20 %
Distillates (petroleum), hydrotreated light	64742-47-8	>= 5 - < 10 %
NJTS# 136411-5778P Polyolefins		>= 1 - < 5 %
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	>= 1 - < 5 %
Phenol, isobutylenated, phosphate (3:1)	68937-40-6	>= 0.1 - < 1 %
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 discolouration (lips, ear lobes, fingernails),

give oxygen as quickly as possible.

Call a physician or poison control centre immediately.

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.

Call a physician or poison control centre immediately.

Most important symptoms and effects, both acute and

delayed

Notes to physician

: Aspiration may cause pulmonary oedema and pneumonitis.

: 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 : Burning produces noxious and toxic fumes.

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firefighting

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
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL



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		TWA (Mist)	5 mg/m3	OSHA P0
Distillates (petroleum), hydrotreated middle	64742-46-7	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0
Distillates (petroleum), hydrotreated light	64742-47-8	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	200 mg/m3	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA P0
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	68649-12-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0
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.



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Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : red

pH : No data available

Melting point/range

Not applicable

Boiling point/boiling range : No data available

Flash point : > 200 °C

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

Solubility(ies)

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

octanol/water

Auto-ignition temperature : No data available

Viscosity

Viscosity, kinematic : ca. 14.5 mm2/s (40 °C)

## **SECTION 10. STABILITY AND REACTIVITY**

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

Chemical stability : No decomposition if stored and applied as directed.

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 : LD50: > 2,930 mg/kg

(Component) Species: Rat

Method: OECD Test Guideline 401

Acute dermal toxicity

2,6-di-tert-butyl-p-cresol : LD50: > 2,000 mg/kg

(Component) Species: Rat

Method: OECD Test Guideline 402

Skin irritation

1-Decene, tetramer, mixed

with 1-decene trimer,

hydrogenated (Component)

Phosphorodithioic acid, O,O-

di-C1-14-alkyl esters, zinc

salts (Component)

2,6-di-tert-butyl-p-cresol

(Component)

: Result: No skin irritation

: Result: Irritating to skin.

: Species: Rabbit

Result: No skin irritation

: Result: No eye irritation

Eye irritation

1-Decene, tetramer, mixed

with 1-decene trimer,

hydrogenated (Component)

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc

ul-C1-14-aikyi ester

salts (Component)

: Species: Rabbit

Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405

2,6-di-tert-butyl-p-cresol

(Component)

: Species: Rabbit

Result: No eye irritation

Sensitisation

Phosphorodithioic acid, O,O-

di-C1-14-alkyl esters, zinc

salts (Component)

Maximisation Test (GPMT)

Species: Guinea pig

Classification: Did not cause sensitisation on laboratory animals.

2,6-di-tert-butyl-p-cresol

(Component)

: Species: Guinea pig

Classification: Did not cause sensitisation on laboratory animals.

CMR effects

1-Decene, tetramer, mixed with 1-decene trimer,

: Carcinogenicity: Animal testing did not show any carcinogenic effects. Mutagenicity: Animal testing did not show any mutagenic effects.

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hydrogenated (Component) Teratogenicity: No effects on or via lactation, Did not show teratogenic

effects in animal experiments.

Reproductive toxicity: No toxicity to reproduction

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 : Remarks:

aquatic invertebrates

(Product)

No data available

Toxicity to algae (Product) : Remarks:

No data available

Toxicity to fish (Chronic toxicity)

Phenol, isobutylenated,

phosphate (3:1) (Component)

: NOEC: 0.093 mg/l Exposure time: 90 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Phenol, isobutylenated, : NOEC: 0.0399 mg/l phosphate (3:1) Exposure time: 21 d

(Component)

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

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### **Ecotoxicology Assessment**

Results of PBT assessment (Product)

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

Additional ecological

: There is no data available for this product.

information (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**

**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**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
xylene	1330-20-7	100	*



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#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
formaldehyde	50-00-0	100	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

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 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Phosphorodithioic acid, 68649-42-3 1.3487

O,O-di-C1-14-alkyl esters,

zinc salts

**US State Regulations** 

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

State of California to cause cancer.

formaldehyde 50-00-0

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

All components of this product are on the Canadian DSL.

On the inventory, or in compliance with the inventory

**NZIoC** Not 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

## **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

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.



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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.

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