

Version 1.2 Revision Date 08/31/2017 Print Date 11/14/2017

SECTION 1. IDENTIFICATION

Product name: ROYCO 756 MIL-PRF-5606H

Product Use Description: Lubricant

Company: Supplier

LANXESS Canada Co./Cie

25 ERB STREET Elmira, Ontario N3B 2J3 Canada

Telephone: (US) +1 866-430-2775

Emergency telephone num-

ber:

CANUTEC: 613-996-6666 (call collect) (CANUTEC)

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

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Aspiration hazard : Category 1

Acute aquatic toxicity : Category 3

Chronic aquatic toxicity : Category 3

GHS label elements

Hazard pictograms

Signal word : Danger



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

H412 Harmful to aquatic life with long lasting effects.

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 dis-

posal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated light	64742-53-6	>= 50 - < 70
naphthenic		
Distillates (petroleum), hydrotreated middle	64742-46-7	>= 20 - < 30
Distillates (petroleum), hydrotreated light	64742-47-8	>= 5 - < 10
1-Decene, tetramer, mixed with 1-decene trimer,	68649-12-7	>= 1 - < 5
hydrogenated		
	Not Assigned	>= 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

Flush with plenty of water.

If eye irritation persists, consult a specialist.



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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

: Aspiration may cause pulmonary oedema and pneumonitis.

: For specialist advice physicians should contact the Poisons Notes to physician

Information Service.

SECTION 5. FIREFIGHTING MEASURES

: Carbon dioxide (CO2) Suitable extinguishing media

> Dry powder Foam

Alcohol-resistant foam

Water mist

Unsuitable extinguishing

media

: Water

Specific hazards during fire-

fighting

: Burning produces noxious and toxic fumes.

Further information : Use extinguishing measures that are appropriate to local cir-

> cumstances and the surrounding environment. Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

tive equipment and emer-

gency procedures

Personal precautions, protec- : Use personal protective equipment. Ensure adequate ventilation.

> Clean contaminated surface thoroughly. Material can create slippery conditions.

Environmental precautions : Do not contaminate water.

Do not flush into surface water or sanitary sewer system.

Discharge into the environment must be avoided.

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.

: Keep container tightly closed in a dry and well-ventilated Conditions for safe storage

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place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hy- drotreated light naphthenic	64742-53-6	TWA	0.2 mg/m3	CA BC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
Distillates (petroleum), hy- drotreated middle	64742-46-7	TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	68649-12-7	TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
Distillates (petroleum), hy- drotreated light naphthenic	64742-53-6	TWA	0.2 mg/m3	CA BC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Mist)	1 mg/m3	CA BC OEL
Distillates (petroleum), hy- drotreated middle	64742-46-7	TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL
-		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
Distillates (petroleum), hy- drotreated light	64742-47-8	TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL



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		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	CA BC OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	CA AB OEL
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	68649-12-7	TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
2,6-di-tert-butyl-p-cresol	128-37-0	TWA	10 mg/m3	CA AB OEL
		TWAEV	10 mg/m3	CA QC OEL
		TWAEV (In- halable)	2 mg/m3	CA ON OEL
		TWA (Va-	2 mg/m3	CA BC OEL
		pour and inhalable aerosols)		
triphenyl phosphate	115-86-6	TWA	3 mg/m3	CA AB OEL
, , , , , , , , , , , , , , , , , , , ,		TWA	3 mg/m3	CA BC OEL
		TWAEV	3 mg/m3	CA ON OEL
		TWAEV	3 mg/m3	CA QC OEL

Engineering measures : Ensure that eyewash stations and safety showers are close

to the workstation location.

Effective exhaust ventilation system

Personal protective equipment

Respiratory protection : not required under normal use

Breathing apparatus needed only when aerosol or mist is

formed.

When using this product at elevated temperatures, wear a

respirator with a vapour filter.

Hand protection

Remarks : Neoprene gloves

Eye protection : Safety glasses with side-shields

or

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

Colour : red

Odour : aromatic

Odour Threshold : No data available

pH : Not applicable

pour point : < -60 °C

Boiling point/boiling range : No data available

Flash point : > 93.3 °C

Method: ASTM D 93

Evaporation rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : ca. 0.86

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Viscosity

Viscosity, kinematic : 13.9 mm2/s (40 °C)

Self-Accelerating decomposi-

tion temperature (SADT)

: Method: No information available.

Oxidizing potential : No information available.

SECTION 10. STABILITY AND REACTIVITY



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

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

Possibility of hazardous reac-

tions

: Hazardous polymerisation does not occur.

Stable under normal conditions.

Conditions to avoid : Heat, flames and sparks.

Contamination

Incompatible materials : Strong acids and strong bases

Oxidizing agents

Hazardous decomposition

products

: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

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

Acute oral toxicity : LD50 (Rat, male and female): > 2,930 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Components:

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

Result: No skin irritation

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

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Components:

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

Result: No eye irritation

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

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitisation

Components:



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

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

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

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Rat (male and female)

Cell type: Bone marrow

Result: negative

Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects.

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

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

: Test Type: Chromosome aberration test in vitro

Result: Conflicting results have been seen in different studies.

: Test Type: Unscheduled DNA synthesis (UDS)

Result: negative

: Test Type: In Vitro mammalian Cell Gene Mutation Test

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse (male and female)

Cell type: Bone marrow

Method: Mutagenicity (micronucleus test)

Result: negative

Test Type: in vivo assay Species: Rat (male) Cell type: Bone marrow Application Route: Oral

Method: Mutagenicity (in vivo mammalian bone-marrow cyto-

genetic test, chromosomal analysis)

Result: negative

Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:



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

Carcinogenicity - Assess-

: Animal testing did not show any carcinogenic effects.

ment

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 carcino-

gen 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.

Reproductive toxicity

Components:

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

Reproductive toxicity - As- : No toxicity to reproduction

sessment No effects on or via lactation, Did not show teratogenic effects

in animal experiments.

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

Reproductive toxicity - Assessment

: No toxicity to reproduction
No effects on or via lactation

STOT - repeated exposure

Components:

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

Exposure routes: Oral

Assessment: The substance or mixture is not classified as specific target organ toxicant, re-

peated exposure.

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

Exposure routes: Oral

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Components:

Distillates (petroleum), hydrotreated light naphthenic:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data is available on the product itself.



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

Remarks: No data available

Components:

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 190 mg/l

Exposure time: 48 h

Toxicity to fish : LC50 (Fish): 0.8 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.202 mg/l

Exposure time: 48 h

Toxicity to fish (Chronic toxic-

ity)

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

Toxicity to daphnia and other : NOEC: 0.0399 mg/l

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d

Persistence and degradability

Product:

Biodegradability : Result: No data available

Components:

Biodegradability : GLP: yes

Remarks: Readily biodegradable.

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

Biodegradability : aerobic

> Inoculum: activated sludge Concentration: 50 mg/l

Result: According to the results of tests of biodegradability this

product is not readily biodegradable.

Biodegradation: 4.5 % Exposure time: 28 d



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Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

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

Partition coefficient: n-

octanol/water

: log Pow: > 7

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Bioconcentration factor (BCF): 1,850

Partition coefficient: n-

octanol/water

: log Pow: 4.85 (25 °C)

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

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 230 - 2,500

Exposure time: 56 d Temperature: 25 °C Concentration: 0.05 mg/l

Partition coefficient: n-

octanol/water

: log Pow: 5.1 GLP: yes

log Pow: 4.2

Mobility in soil

Product:

Mobility : Remarks: No data available

Other adverse effects

Product:

Results of PBT and vPvB

assessment

: This mixture contains no substance considered to be persis-

tent, bioaccumulating and toxic (PBT).

tion

Additional ecological informa: The product itself has not been tested.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of waste material in compliance with all federal, state,

and local regulations.

Contaminated packaging : Do not burn, or use a cutting torch on, the empty drum.



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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.

National Regulations

TDG

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

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

DSL : All components of this product are on the Canadian DSL

AICS : 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

TCSI : On the inventory, or in compliance with the inventory

US.TSCA : On TSCA Inventory



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Canadian lists

<u>Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2)</u>: WHMIS Ingredient Disclosure List IDL: No component is listed on the WHMIS ingredients disclosure list.

Canada. Canadian Environmental Protection Act (CEPA). National Pollutant Release Inventory (NPRI) (Can. Gaz. Part I, 135:12, 940): 2,6-di-tert-butyl-p-cresol formaldehyde xylene

<u>Canada. CEPA 1999 Significant New Activity (SNAc) List</u>: No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER 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

Full text of other abbreviations

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AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-



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Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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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.

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