#### ANDEROL Specialty Lubricants

# SAFETY DATA SHEET

# **ROYCO 602 MIL-PRF-87252C**

rsion: 1.8	Revision Date: 07/11/2018	Print Date: 04/02/2020
CTION 1. PRODUCT AND CO	OMPANY IDENTIFICATION	
Product name:	ROYCO 602 MIL-PRF-87252C	
	HYDROLYTICALLY STABLE COOLANT	& DIELECTRIC LUBRICATING FLU
Product Use Description:	Lubricant	
Synonyms:	Synthetic Lubricant Formulation	
Company:	<u>Manufacturer</u> Anderol Specialty Lubricants, a division of Lanxess Solutions US Inc. 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 num Data Sheet.	nbers see section 16 of the Safety
Prepared by	Product Safety Department (US) +1 866-430-2775	
	MSDSRequest@lanxess.com	

Recommended use : Lubricant

### **SECTION 2. HAZARDS IDENTIFICATION**

Form	liquid
Colour	clear to white
Odour	odourless

### **GHS Classification**

Acute toxicity (Inhalation)	: Category 4
Aspiration hazard	: Category 1

### **GHS** label elements

Signal word

: Danger

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Hazard pictograms			
Hazard statements	: H304 May be fatal if swallowed H332 Harmful if inhaled.	d and enters airways.	
Other hazards	None		
Precautionary statements	<ul> <li>Prevention:</li> <li>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>Response:</li> <li>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.</li> <li>P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.</li> <li>P331 Do NOT induce vomiting.</li> <li>Storage:</li> <li>P405 Store locked up.</li> <li>Disposal:</li> <li>P501 Dispose of contents/ container to an approved waste disposal plant.</li> </ul>		
Carcinogenicity:			
IARC	No component of this product pres equal to 0.1% is identified as proba human carcinogen by IARC.		
OSHA	No component of this product pres equal to 0.1% is on OSHA's list of		
NTP	No component of this product pres equal to 0.1% is identified as a kno by NTP.	sent at levels greater than or	

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous components

Chemical name	CAS-No.	Concentration (%)
Dec-1-ene, dimers, hydrogenated	68649-11-6	>= 90 - < 100 %
2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol	118-82-1	>= 1 - < 2.5 %

SAP 6.0 SDS 2012-2 NA GHS

SDS Number: 40000001782



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# SECTION 4. FIRST AID MEASURES

If inhaled	<ul> <li>If inhaled Move to fresh air.</li> <li>If not breathing, give artificial respiration.</li> <li>If breathing is difficult, give oxygen.</li> <li>In case of bluish discolouration (lips, ear lobes, fingernails), give oxygen as quickly as possible.</li> <li>If symptoms persist, call a physician.</li> </ul>
In case of skin contact	<ul> <li>In case of skin contact</li> <li>Wash off with soap and water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Wash contaminated clothing before re-use.</li> <li>Get medical attention if irritation develops and persists.</li> </ul>
In case of eye contact	<ul> <li>In case of eye contact</li> <li>Rinse thoroughly with plenty of water, also under the eyelids.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>
If swallowed	: If swallowed, DO NOT induce vomiting. Consult a physician if necessary.
Most important symptoms and effects, both acute and	: Aspiration may cause pulmonary oedema and pneumonitis.
delayed Notes to physician	: For specialist advice physicians should contact the Poisons Information Service.

### **SECTION 5. FIREFIGHTING MEASURES**

	Dry powder Dry sand Alcohol-resistant foam Water mist	
Unsuitable extinguishing media	: High volume water jet	
Specific hazards during firefighting	: Burning produces noxious and toxic fume	S.
Specific extinguishing methods	: In the event of fire, cool tanks with water s	spray.
Special protective equipment	: In the event of fire, wear self-contained br	eathing apparatus.
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Use personal protective equipment.	
ASE MEASURES	
: Use personal protective equipme Ensure adequate ventilation.	ent.
: Should not be released into the e Do not contaminate water. Do not flush into surface water o	
: 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).	
	Use personal protective equipme ASE MEASURES : Use personal protective equipme Ensure adequate ventilation. : Should not be released into the of Do not contaminate water. Do not flush into surface water of : Contain spillage, soak up with no material, (e.g. sand, earth, diator and transfer to a container for dia

Advice on safe handling	<ul> <li>Keep container closed when not in use.</li> <li>Do not use pressure to empty drums.</li> <li>Ensure all equipment is electrically grounded before beginning transfer operations.</li> </ul>
Conditions for safe storage	: Keep container tightly closed in a dry and well-ventilated place.
Materials to avoid	: Strong acids and strong bases, Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Engineering measures	Effective exhaust ventilation system Ensure that eyewash stations and sat the workstation location.	fety showers are close to
Personal protective equipmen	t	
Respiratory protection	Breathing apparatus needed only whe formed. In the case of vapour formation use a approved filter.	
Hand protection		
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Remarks	: Neoprene gloves	
Eye protection	: Safety glasses with side-shields Tightly fitting safety goggles	
Skin and body protection	: Impervious clothing	
Hygiene measures	<ul> <li>Avoid contact with skin, eyes and clothing.</li> <li>Handle in accordance with good industrial hygiene and safety practice.</li> <li>Wash hands before breaks and at the end of workday.</li> </ul>	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear to white
Odor	: odourless
Odour Threshold	: No data available
рН	: No data available
Melting point/range	: Not applicable
Boiling point/boiling range	: No data available
Evaporation rate	: No data available
Flash point	: 158 °C Method: open cup
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	: 0.8
<u>Solubility(ies)</u>	
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	



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Viscosity, kinematic

: 5.18 mm2/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	: Contamination Heat, flames and sparks.
Incompatible materials	: Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	: Carbon oxides

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity		
Product:		
Acute oral toxicity	: Acute toxicity estimate: 2,525 mg/kg Method: Calculation method	
Acute inhalation toxicity	: Remarks: No data available	
	Acute toxicity estimate: 11.11 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method	
Acute dermal toxicity	: Acute toxicity estimate: 2,500 mg/kg Method: Calculation method	
Components:		
Dec-1-ene, dimers, hydroge	nated:	
Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg	
Acute inhalation toxicity	: LC50 (Rat): 3.8 mg/l Test atmosphere: vapour	
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Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg	
2,2',6,6'-tetra-tert-butyl-4	,4'-methylenediphenol:	
Acute oral toxicity	ED50 (Rat, male and female): > Method: OECD Test Guideline 4 GLP: yes	
Acute dermal toxicity	: LD50 (Rabbit, male and female) Method: OECD Test Guideline 4 GLP: yes	
Skin corrosion/irritation		
Components:		
Dec-1-ene, dimers, hydro Species: Rabbit Result: No skin irritation	ogenated:	
Serious eye damage/eye	irritation	
Components:		
<b>Dec-1-ene, dimers, hydro</b> Species: Rabbit Result: No eye irritation	ogenated:	
Carcinogenicity		
IARC	No component of this product prese equal to 0.1% is identified as proba human carcinogen by IARC.	
OSHA	No component of this product prese equal to 0.1% is on OSHA's list of r	
NTP	No component of this product prese equal to 0.1% is identified as a kno by NTP.	
Aspiration toxicity		

# Components:

# Dec-1-ene, dimers, hydrogenated:

May be harmful if swallowed and enters airways.



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## **Further information**

### Product:

Remarks: There is no data available for this product.

### **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Product:

Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae	:	Remarks: No data available

### **Components:**

### 2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol:

Toxicity to fish	:	LC50 (Cyprinodon variegatus (sheepshead minnow)): > 1,000 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Mysid shrimp): > 1,000 mg/l Exposure time: 96 h Test Type: static test

### Persistence and degradability

Product:		
Biodegradability	:	Remarks: No data available

#### **Bioaccumulative potential**

Product:

Bioaccumulation : Remarks: No data available

### Components:

### 2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol:

Partition coefficient: n-	:	log Pow: 6.24 (68 °F / 20 °C)
octanol/water		GLP: yes



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Mobility in soil		
Product:		
Mobility	: Remarks: No data available	
Other adverse effects <u>Product:</u>		
Results of PBT and vPvB assessment	: This substance is not considered bioaccumulating and toxic (PBT)	•
Additional ecological information	: There is no data available for thi	is 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.

#### **National Regulations**

**49 CFR** Not regulated as a dangerous good

### SECTION 15. REGULATORY INFORMATION

SAP 6.0 SDS 2012-2 NA GHS



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ning and Community Right-to-Know	Act
ntity ain any components with a CERCLA RG Intity ain any components with a section 304	
: Acute toxicity (any route of exposu Aspiration hazard	ıre)
known CAS numbers that exceed	the threshold (De Minimis)
	nning and Community Right-to-Know ntity ain any components with a CERCLA RC Intity ain any components with a section 304 : Acute toxicity (any route of exposu

#### **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.

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	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**



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#### **Further information**

#### Other Emergency Phone Number

Latin America:	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.