

SAFETY DATA SHEET



ROYCO 782 MIL-PRF-83282

Version: 2.0 Revision Date: 07/10/2020 SDS Number: 40000000179 Date of last issue: 05/31/2020
Date of first issue: 01/30/2015

SECTION 1. IDENTIFICATION

Product name: ROYCO 782 MIL-PRF-83282

Product Use Description: Lubricant

Synonyms: Synthetic Lubricant Formulation

Company: Manufacturer
Anderol Specialty Lubricants, a division of Lubex Solutions US Inc.
215 Merry Lane
East Hanover, NJ
07936
United States of America (USA)
Telephone: +1 201-573-4585 Toll Free: 1-888-285-3765

Emergency telephone number: CHEMTREC
(24 hours) 300-424-9300

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department
(US) +1 866-450-2775

MSDSRequest@laxess.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 in accordance with 29 CFR 1910.1200

Aspiration hazard : Category 1

GHS label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

Precautionary statements

Prevention:

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P273 Avoid release to the environment

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor

P531 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No	Concentration (% w/w)
Diac-1-ene, oligomers, hydrogenated	68037-01-4	>= 50 - < 70

Actual concentration is withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

Inhalation	<ul style="list-style-type: none"> ☞ If inhaled Move to fresh air If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of dizziness/discolouration (lips, ear lobes, fingernails), give oxygen as quickly as possible. Get medical attention.
In case of skin contact	<ul style="list-style-type: none"> ☞ 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	<ul style="list-style-type: none"> ☞ In case of eye contact Flush with plenty of water. If eye irritation persists, consult a specialist
If swallowed	<ul style="list-style-type: none"> ☞ If swallowed. DO NOT induce vomiting. Consult a physician if necessary.
Most important symptoms and effects, both acute and delayed	<ul style="list-style-type: none"> ☞ None known.

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- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : 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 fire-fighting : Burning produces noxious and toxic fumes.
- Further information : 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.
Remove all sources of ignition.
Clean contaminated surface thoroughly.
Material can create slippery conditions.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Contain spillage: soak up with non-combustible absorbent material (e.g. sand, cat litter, 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.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
triphenyl phosphate	115-86-9	TWA	3 mg/m ³	ACGIH
		TWA	3 mg/m ³	OSHA 2.1
		TWA	3 mg/m ³	OSHA F0
		TWA	3 mg/m ³	NIOSH REL

Contains no substances with occupational exposure limit values.

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
 Wear a NIOSH/MSHA approved organic cartridge respirator if misting or vapor occurs, or there is potential for airborne exposures to exceed established threshold values.

Hand protection

Remarks : Nitrile 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

Colour : red

Odour : No data available

Odour Threshold : No data available

pH : Not applicable

: No data available

: No data available

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Flash point:	450 °F / 232 °C
	Method: open cup
Evaporation rate	No data available
Upper explosion limit / Upper flammability limit	No data available
Lower explosion limit / Lower flammability limit	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Relative density	0.85
Density	No data available
Solubility(ies)	
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient in octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Self-Accelerating decomposition temperature (SADT)	Method: No information available
Viscosity	
Viscosity, kinematic	14.3 mm ² /s (104 °F / 40 °C)
Oxidizing potential	No information available.
Molecular weight	No data available

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 polymerization does not occur. Stable under normal conditions
Conditions to avoid	Contamination Heat, flames and sparks

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- Incompatible materials
- Oxidizing agents
- Strong acids and strong bases
- Hazardous decomposition products
- Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Eye contact
Skin contact

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 on OSHA's list of regulated carcinogens.

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.

Aspiration toxicity

Components:

Dec-1-ene, oligomers, hydrogenated:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks The product itself has not been tested.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity Harmful to aquatic life

Chronic aquatic toxicity Harmful to aquatic life with long lasting effects.

Persistence and degradability

Product:

Biodegradability Result: No data available

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Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Mobility in soil

Product:

Mobility : Remarks: No data available

Other adverse effects

Product:

Results of FBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of as hazardous waste in compliance with local and national regulations.
Dispose of wastes in an approved waste disposal facility.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.

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

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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

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

ERCCLA Reportable Quantity

Component(s)	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
xylene	1333-20-7	100	*

*: Calculated RQ exceeds reasonably attainable upper limit

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 LHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ

SARA 311/312 Hazards No SARA Hazards

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

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A - App. A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 91).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(i) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 90.459)

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California List of Hazardous Substances

2,2',6,6'-tetra-tert-butyl-4,4'-methylenebiphenol 118-82-1

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

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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:

TCSI	: On the inventory, or in compliance with the inventory
US.TSCA	: All substances listed as active on the TSCA inventory
AICS	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
KEC	: On the inventory, or in compliance with the inventory
FICCS	: On the inventory, or in compliance with the inventory
ILCSC	: On the inventory, or in compliance with the inventory
NZInC	: On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

<u>Brazil:</u>	Brazil	+55 (11) 3-97 5851
	All other countries	+41 (0) 1 255 239 870
<u>Mexico:</u>		+52 55 5004 6785

Full text of other abbreviations

ACGIH	: USA. ACGIH - Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH - Recommended Exposure Limits
OSHA P0	: USA. OSHA - TABLE Z-1 - Limits for Air Contaminants - 10 ⁶ /1000
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 - Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	: 8-hour time-weighted average
OSHA Z-1 / TWA	: 8-hour time-weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic

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Substances List (Canada); ECx - Concentration associated with x% response; IHS - Extremely Hazardous Substances; Lx - Loading rate associated with x% response; EMS - Emergency Sched. I; 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; HMS - Hazardous Materials Identification System; 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; ICHSC - 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; LD50 - 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect; Loading Rate; NTP - National Toxicology Program; NZIC - 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; QSAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SAD₅₀ - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvS - Very Persistent and Very Bioaccumulative

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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 guide 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.

LS/EN