ANDEROL Specialty Lubricants

SAFETY DATA SHEET

ROYCO 555 DOD-PRF-85734

ersion: 1.7	Revision Date: 07/11/2018	Print Date: 04/02/2020
ECTION 1. PRODUCT AND C	OMPANY IDENTIFICATION	
Product name:	ROYCO 555 DOD-PRF-85734	
	TURBINE ENGINE & HELICOPTER TR	ANSMISSION OIL
Product Use Description:	Lubricant	
Synonyms:	Synthetic Lubricant Formulation	
Company:	<u>Manufacturer</u> Anderol Specialty Lubricants, a division 215 Merry Lane East Hanover, NJ 07936 United States of America (USA)	
	Telephone: +1 203-573-4596, Toll Free	: +1 888-263-3765
Email: Emergency telephone number:	msdsrequest@chemtura.com CHEMTREC: (24 hours) 800-424-9300 : : US : 800-292-5898 (Technical inquirie	
	For additional emergency telephone nur Data Sheet.	nbers see section 16 of the Safety
Prepared by	Product Safety Department (US) +1 866-430-2775	
	MSDSRequest@lanxess.com	
Recommended use of the c	hemical and restrictions on use	
Recommended use	: Lubricant	

SECTION 2. HAZARDS IDENTIFICATION

Form	liquid
Colour	amber
Odour	mild

GHS Classification

Reproductive toxicity	: Category 2
Acute aquatic toxicity	: Category 3
Chronic aquatic toxicity	: Category 3

GHS label elements

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ion: 1.7	Revision Date: 07/11/2018	Print Date: 04/02/2020
Signal word	: Warning	
Hazard pictograms		
Hazard statements	: H361 Suspected of damaging for H412 Harmful to aquatic life with	
Other hazards	None	
Precautionary statements	 Prevention: P201 Obtain special instructions P202 Do not handle until all saft and understood. P273 Avoid release to the envir P280 Wear protective gloves/ p protection/ face protection. Response: P308 + P313 IF exposed or cor attention. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ cont disposal plant. 	ety precautions have been read onment. rotective clothing/ eye ncerned: Get medical advice/
Carcinogenicity:		
IARC	No component of this product prese equal to 0.1% is identified as proba	
OSHA	human carcinogen by IARC. 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.	ent at levels greater than or

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components Chemical name CAS-No. Concentration (%) SAP 6.0 SDS 2012-2 NA GHS 2 / 12 SDS Number: 40000001740



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Benzenamine, N-phenyl-	reaction products with 2,4,4-trimethylpentene	68411-46-1	>= 1 - < 2.5 %
tris(methylphenyl) phosph			>= 0.25 - < 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. 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	: None known.
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 firefighting	: Burning produces noxious and toxic fumes	
Specific extinguishing	: In the event of fire, cool tanks with water s	pray.
SAP 6.0 SDS 2012-2 NA GHS	3 / 12	SDS Number: 40000001740



ROYCO 555 DOD-PRF-85734 Print Date: 04/02/2020 Version: 1.7 Revision Date: 07/11/2018 methods Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters Use personal protective equipment. SECTION 6. ACCIDENTAL RELEASE MEASURES Personal precautions, : Use personal protective equipment. protective equipment and Ensure adequate ventilation. emergency procedures : Should not be released into the environment. **Environmental precautions** Do not contaminate water. Do not flush into surface water or sanitary sewer system. Methods and materials for : Contain spillage, soak up with non-combustible absorbent containment and cleaning up 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

Engineering measures :	Effective exhaust ventilation system Ensure that eyewash stations and sa the workstation location.	
Personal protective equipment	:	
Respiratory protection :	Breathing apparatus needed only wh formed. In the case of vapour formation use a	
SAP 6.0 SDS 2012-2 NA GHS	4 / 12	SDS Number: 40000001740



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	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 Handle in accordance with good in practice. Wash hands before breaks and at 	ndustrial hygiene and safety

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid	
Color	: amber	
Odor	: mild	
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	: > 246 °C Method: ASTM D92	
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	: 0.99	
Density	: No data available	
Solubility(ies)		
Water solubility	: slightly soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-	: No data available	
SAP 6.0 SDS 2012-2 NA GHS	5 / 12	SDS Number: 40000001740

DEROL



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octanol/water		
Auto-ignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity		
Viscosity, kinematic	: No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under conditions of normal u	se.
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	
Hazardous decomposition products	Carbon oxides	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Product:	
Acute oral toxicity	 Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
<u>Components:</u> Benzenamine, N-phenyl-, Acute oral toxicity	reaction products with 2,4,4-trimethylpentene: : LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg



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Skin corrosion/irritation

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Serious eye damage/eye irritation

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Components:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Species: Guinea pig Assessment: Did not cause sensitisation on laboratory animals. Method: OECD Test Guideline 406

Germ cell mutagenicity

<u>Components:</u>	
Benzenamine, N-phenyl-, rea	ction products with 2,4,4-trimethylpentene:
Germ cell mutagenicity - Assessment	: Not mutagenic in Ames Test

tris(methylphenyl) phosphate:

Germ cell mutagenicity - : In vitro tests did not show mutagenic effects Assessment

Carcinogenicity

<u>Components:</u> tris(methylphenyl) pho Carcinogenicity - Assessment	sphate: : Animal testing did not show any carcinogenic effects.
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
SAP 6.0 SDS 2012-2 NA GHS	7 / 12 SDS Number: 40000001740



ROYCO 555 DOD-PRF-85734 Version: 1.7 Revision Date: 07/11/2018 Print Date: 04/02/2020 by NTP. **Reproductive toxicity Components:** tris(methylphenyl) phosphate: Effects on foetal : Species: Rat **Application Route: Oral** development Developmental Toxicity: NOEL: 20 mg/kg : Suspected of damaging fertility or the unborn child. Reproductive toxicity -Did not show teratogenic effects in animal experiments. Assessment Aspiration toxicity Product: No aspiration toxicity classification **Further information Product:** Remarks: There is no data available for this product. **SECTION 12. ECOLOGICAL INFORMATION** Ecotoxicity Product: Toxicity to fish Remarks: No data available Toxicity to daphnia and other : aquatic invertebrates Remarks: No data available

Components:

Toxicity to algae

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:	:
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:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 71 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 51 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

SAP 6.0 SDS 2012-2 NA GHS

Remarks: No data available

SDS Number: 40000001740

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ion: 1.7	R	evision Date: 07/11/2018	Print Date: 04/02/20
Toxicity to algae	:	EbC50 (Desmodesmus subspicate mg/l Exposure time: 72 h Method: OECD Test Guideline 20	
tris(methylphenyl) phosph	ate:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rain Exposure time: 96 h	bow trout)): 0.75 mg/l
		LC50 (Pimephales promelas (fathe Exposure time: 96 h	ead minnow)): > 100 mg/l
		LC50 (Oncorhynchus mykiss (rain Exposure time: 96 h	bow trout)): 0.6 mg/l
Toxicity to daphnia and other aquatic invertebrates	r :	EC50 (Daphnia magna (Water flea Exposure time: 48 h Method: OECD Test Guideline 20	
		EC50 (Daphnia magna (Water flea Exposure time: 48 h	a)): 0.27 mg/l
M-Factor (Acute aquatic toxicity)	:	1	
Toxicity to microorganisms	:	EC50 (activated sludge): > 100 m Exposure time: 3 h Test Type: Respiration inhibition	g/l
Persistence and degradabi	lity		
Product:			
Biodegradability	:	Result: No data available	
Components:			
Benzenamine, N-phenyl-, r	eact	ion products with 2,4,4-trimethyl	pentene:
Biodegradability	:	Result: According to the results of product is not readily biodegradab Method: CO2 Evolution Test	
Bioaccumulative potential			
Product:			
Bioaccumulation	:	Remarks: No data available	
Components:			
	eact	ion products with 2,4,4-trimethyl	pentene:
Partition coefficient: n-		log Pow: > 7	



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octanol/water		
tris(methylphenyl) phosp	phate:	
Partition coefficient: n- octanol/water	: Pow: 5.93	
Mobility in soil		
Product:		
Mobility	: Remarks: No data available	
Other adverse effects		
Product:		
Results of PBT and vPvB assessment	: This substance is not considered bioaccumulating and toxic (PBT).	
Additional ecological information	: There is no data available for this	product.
Components:		
Benzenamine, N-phenyl-	, reaction products with 2,4,4-trimethy	lpentene:
Additional ecological information	: Harmful to aquatic organisms, ma effects in the aquatic environmen Do not allow material to contamin Do not flush into surface water or	t. ate ground water system.

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

SAP 6.0 SDS 2012-2 NA GHS



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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

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
amitrole	61-82-5	10	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA304 Reportable Quantity

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

SARA 311/312 Hazards	:	Reproductive toxicity
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 can expose you to chemicals including amitrole, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.



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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	Not in compliance with the inventory			
KECI	Not in compliance with the inventory			
PICCS	Not 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

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 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.