



Version 1.2	Revision Date: 10/11/2020	-	DS Number: 3000016231	Date of last issue: 10/11/2020 Country / Language: US / EN
SECTION	I 1. IDENTIFICATION			
Prod	uct name	:	ROYCO 27 MIL-0	G-23827C
Prod	uct code	:	0000000005832	2450
Man	ufacturer or supplier's	deta	ails	
Com	pany	:	111 RIDC Park V	Regulatory Affairs
Resp	oonsible Department	:	+1800LANXESS	
Eme	rgency telephone numbe	er :	International (703	
Reco	ommended use of the o	chen	nical and restriction	ons on use
Reco	ommended use	:	Lubricant	
Rest	rictions on use	:	For industrial use	only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Lubricant

Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated	64742-52-5	>= 1 - < 5
heavy naphthenic		



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Any concentration shown as a range is to protect confidentiality or is due to batch variation.

If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	: Wash off with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. Get medical attention if symptoms appear. Wash contaminated clothing before re-use.
In case of eye contact	 Immediately flush eye(s) with plenty of water. Continue to rinse for at least 20 minutes. Remove contact lenses. Get medical attention if symptoms appear.
If swallowed	: Rinse mouth with water. Do not induce vomiting unless directed to do by medical pe
	sonnel. Get medical attention if symptoms appear.
Most important symptom	
Most important symptom Symptoms	Get medical attention if symptoms appear.
	 Get medical attention if symptoms appear. s and effects, both acute and delayed Skin: Causes irritation with symptoms of reddening, itching and swelling. May cause sensitisation by skin contact. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed
Symptoms	 Get medical attention if symptoms appear. s and effects, both acute and delayed Skin: Causes irritation with symptoms of reddening, itching and swelling. May cause sensitisation by skin contact. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed very low levels. Causes skin irritation. May cause sensitisation by skin contact.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing	:	None known.
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	media				
	Specific fighting	hazards during fire-	:	Toxic and irritating ing or thermal dec	g gases/fumes may be given off during burn- composition.
	Hazardo ucts	ous combustion prod-	:	Carbon dioxide (C Carbon monoxide Metal oxides Nitrogen oxides (I Sulphur oxides	
	Further	information	:	vicinity of the incid	he scene by removing all persons from the dent if there is a fire. taken involving any personal risk or without
	Special for firefi	protective equipment ghters	:	Wear self-contain essary.	ed breathing apparatus for firefighting if nec-

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protection equipment. Do not touch or walk through spilled material. Evacuate personnel to safe areas. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Do not breathe vapours/dust.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
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 :	Wear suitable protective equipment. Avoid contact with skin, eyes and clothing. Keep tightly closed. Protect from contamination. Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.
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Con	ditions for safe storage	:	Keep tightly close	ed in a dry, cool and well-ventilated place.
Further information on stor- age conditions		:	Keep away from	oxidizing agents.
	ner information on stor- stability	:	Stable under reco	ommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
lithium 12-hydroxystearate	7620-77-1	TWA (Inhal-	10 mg/m3	ACGIH
		able particu-		
		late matter)		
		TWA (Res-	3 mg/m3	ACGIH
		pirable par-		
		ticulate mat-		
		ter)		
Distillates (petroleum), hy- drotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal-	5 mg/m3	ACGIH
		able particu-	_	
		late matter)		
tris(dipentyldithiocarbamato-	15890-25-2	TWA	0.5 mg/m3	OSHA Z-1
S,S')antimony			(antimony)	
		TWA	0.5 mg/m3	ACGIH
			(antimony)	

Components with workplace control parameters

Engineering measures	: Effective exhaust ventilation system	
		Ensure that eyewash stations and safety showers are close
		to the workstation location.

Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally re- quired. In case of mist, spray or aerosol exposure wear suitable per- sonal respiratory protection and protective suit.
Hand protection		
Remarks	:	Neoprene gloves When handling hot material, use heat re- sistant gloves.
Eye protection	:	Tightly fitting safety goggles
Skin and body protection	:	Impervious clothing
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Hygie	ene measures	praction	le in accordance with good industrial hygiene and safety ce. hands before breaks and at the end of workday.
SECTION	9. PHYSICAL AND CH		ROPERTIES
Арре	arance	: paste	9
Colou	ır	: tan	
Odou	ır	: mild,	oily

	-	
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
		No data available
Boiling point/boiling range	:	No data available
		No data available
Flash point	:	> 396 °F / 202 °C
		Method: open cup No data available
Evaporation rate	:	No data available
Self-ignition	:	No data available
Burning number	:	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	:	No data available

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	Density		:	0.92 g/cm3	
	Solubili Wat	ty(ies) er solubility	:	negligible	
	Solu	bility in other solvents	:	partly soluble	
				No data available)
	Partition octanol	n coefficient: n- /water	:	No data available	
	Auto-ig	nition temperature	:	not determined	
	Decom	position temperature	:	No data available	•
		celerating decomposi- perature (SADT)	:	Method: No infor	mation available.
	Viscosi Visc	ty osity, dynamic	:	No data available)
	Visc	osity, kinematic	:	No data available)
	Explosi	ve properties	:	No data available)
	Oxidizir	ng properties	:	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 reac- tions	:	Hazardous polymerisation does not occur.
Conditions to avoid	:	Contamination Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Sulphur oxides Carbon oxides Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

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Components:

Distillates (petroleum), hydrotreated heavy naphthenic:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated heavy naphthenic:

Result : No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated heavy naphthenic:

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.





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Components:

Distillates (petroleum), hydrotreated heavy naphthenic:

Exposure routes Species		Skin contact Guinea pig
Method		OECD Test Guideline 406
Result	:	Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated heavy naphthenic:

Genotoxicity in vitro	:	Test system: Mammalian-Animal
-		Method: OECD Test Guideline 473
		Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated heavy naphthenic:

Carcinogenicity ment	- Assess- :	Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)
IARC	•	this product present at levels greater than or equal to 0.1% is able, 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.

Reproductive toxicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated heavy naphthenic:

Effects on foetal develop-	:	Species: Rat
ment		Application Route: Dermal
		Dose: 0 - 2000 milligram per kilogram
		Result: No teratogenic potential

STOT - single exposure

Not classified based on available information.





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<u>Com</u>	ponents:		
Distil	lates (petroleum), h	ydrotreated heavy na	phthenic:
Asses	ssment	: May cause res	piratory irritation.
STO	- repeated exposur	e	
Not c	lassified based on ava	ailable information.	
Aspir	ation toxicity		
Not c	lassified based on ava	ailable information.	
Prod	uct:		
No as	spiration toxicity class	ification	
Furth	er information		
Prod	uct:		
Rema	arks	: The product its	elf has not been tested.
CTION	12. ECOLOGICAL IN	NFORMATION	
Ecoto	oxicity		
Prod	uct:		
	ity to fish	:	
		Remarks: No c	lata available
Com	ponents:		
Distil	lates (petroleum), h	ydrotreated heavy na	phthenic:
Toxic	ity to fish	: LC50 (Oncorh) Exposure time	/nchus mykiss (rainbow trout)): > 5,000 mg/l : 96 h
	ity to daphnia and oth tic invertebrates	er : EC50 (Daphnia Exposure time	a magna (Water flea)): > 1,000 mg/l : 48 h
		EL 50 (Danhnia	n magna (Water flea)): > 100,000 mg/l

Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	-	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: Fresh water
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Toxicity to microorganisms : IC50 (Desmodesmus subspicatus (green algae)): > 1,000 mg/l Exposure time: 96 h

Method: OECD Test Guideline 202

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Persi	istence and degradat	oility		
Prod	uct:			
Biode	egradability	:	Result: No data a	available
Com	ponents:			
Disti	llates (petroleum), hy	drotre	ated heavy napl	nthenic:
Biode	egradability	:	aerobic Concentration: 4 Result: Inherently Biodegradation: Exposure time: 2 Method: OECD 1 GLP: yes	y biodegradable. 31 %
Bioa	ccumulative potentia	ļ		
<u>Prod</u>	uct:			
Bioad	cumulation	:	Remarks: No dat	ta available
Com	ponents:			
Disti	llates (petroleum), hy	drotre	ated heavy napl	nthenic:
	ion coefficient: n- ol/water	:	log Pow: > 6	
Mobi	lity in soil			
No da	ata available			
Othe	r adverse effects			
	uct:			
Prod				f has not been tested.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods RCRA - Resource Conserva- tion and Recovery Authoriza- tion Act	:	If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)
Waste from residues	:	Dispose of as hazardous waste in compliance with local and national regulations.
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		Do not conta cal or used c	astes in an approved waste disposal facility. minate ponds, waterways or ditches with chemi- ontainer. se of waste into sewer.
Contaminated packaging			ning contents. s unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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 Hazard and Handling Notes. : Not dangerous cargo, Keep separated from foodstuffs

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
1-naphthylamine	134-32-7	100	*
2-naphthylamine	91-59-8	10	*
aniline	62-53-3	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

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	:	The following components are subject to reporting levels es tablished by SARA Title III, Section 313:		
		tris(dipentyldithio carbamato- S,S')antimony	15890-25-2	>= 1 - < 5 %



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		tris[bis(2- ethylhex- yl)dithiocarbamat o-S,S']antimony	15991-76-1	>= 0.1 - < 1 %
US St	tate Regulations			
Mass	achusetts Right To	Know		
	Distillates (petrole thenic	eum), hydrotreated heavy	naph- 64742-52-5	5 1-5
	aniline 1-naphthylamine		62-53-3 134-32-7	< 0.01 < 0.001
Penn	sylvania Right To Ki	างพ		
	Proprietary ester lithium 12-hydrox		Trade Secr 7620-77-1 naph- 64742-52-5	> 1
		carbamato-S,S')antimony	15890-25-2 Trade Secr	

California Prop. 65

WARNING: This product can expose you to chemicals including aniline, 1-naphthylamine, 2naphthylamine, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

TSCA inventory

TSCA

: All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information



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Full text of other abbreviations

ACGIH		USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / 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 Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - 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; 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: 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; 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;



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(Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recoverv 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: SADT - 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; vPvB - Very Persistent and Very Bioaccumulative

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.