

ROYCO 43

Version: 1.1 Revision Date: 01/08/2015 Print Date: 04/27/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ROYCO 43

(SAE-AMS-G-4343C) PNEUMATIC SYSTEMS GREASE

Product Use Description: Lubricant

Company: <u>Manufacturer</u>

Anderol Specialty Lubricants, a division of Chemtura Corporation

215 Merry Lane East Hanover, NJ

07936

United States of America

Telephone: +1 203-573-4596, Toll Free: +1 888-263-3765

Emergency telephone

number:

CHEMTREC: (24 hours) 800-424-9300

: 703-527-3887

For additional emergency telephone numbers see section 16 of the Safety

Data Sheet.

Prepared by Product Safety Department

(US) +1 866-430-2775

 ${\tt MSDSRequest@chemtura.com}$

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

Form	viscous liquid
Colour	tan
Odour	mild hydrocarbon-like

GHS Classification

Skin sensitisation : Category 1
Acute aquatic toxicity : Category 3
Chronic aquatic toxicity : Category 3

GHS Label element

Signal word : Warning

SAP 6.0 SDS 2012-2 NA GHS 1 / 11 SDS Number: 400000001759



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Hazard pictograms

Hazard statements : H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Other hazards : None

Precautionary statements : **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P272 Contaminated work clothing should not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Self-ignitable : No data available

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.

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

carcinogen by OSHA.

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen 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.

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.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	68649-12-7	>= 50 - < 70 %
lithium stearate	4485-12-5	>= 10 - < 20 %
calcium bis(dinonylnaphthalenesulphonate)	57855-77-3	>= 1 - < 5 %
NJTS#: 46728100000-0002 - Proprietary amine		>= 0.1 - < 1 %

SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air.

Aspiration may cause pulmonary oedema and pneumonitis.

If breathing is difficult, give oxygen. If symptoms persist, call a physician.

In case of skin contact : Wash off with warm water and soap.

If skin irritation persists, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Obtain medical attention.

If swallowed : Obtain medical attention.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

Notes to physician

: Sensitisation

: For specialist advice physicians should contact the Poisons

Information Service.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : (on small fires)

Carbon dioxide (CO2)

Dry chemical Dry sand

Extinguishing media - large fires

Foam Water mist

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not use a solid water stream as it may scatter and spread

fire.

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Burning produces irritant fumes.

Exposure to decomposition products may be a hazard to

health.

Specific extinguishing

methods

: Cool containers/tanks with water spray.

Special protective equipment

for firefighters

: Self-contained breathing apparatus with full face-piece

operated in positive pressure mode.

Body covering protective clothing, full "turn-out" gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Wear suitable protective equipment.

Environmental precautions : Should not be released into the environment.

Do not flush into surface water or sanitary sewer system.

Methods and materials for

containment and cleaning up

: Scrape up. Pick up and transfer to properly labelled

containers.

SECTION 7. HANDLING AND STORAGE

: Handle in accordance with good industrial hygiene and safety Advice on safe handling

practice.

Avoid contact with skin, eyes and clothing. Wear suitable protective equipment.

Keep tightly closed.

Protect from contamination.

Conditions for safe storage : Keep tightly closed in a dry, cool and well-ventilated place.

Protect from contamination.

Materials to avoid : Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	68649-12-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	NIOSH REL

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		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0
lithium stearate	4485-12-5	TWA	10 mg/m3	ACGIH
NJTS#: 46728100000-0002 - Proprietary amine		TWA	10 ml/m3	ACGIH

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Hand protection

Remarks : Impervious gloves

Eye protection : Safety glasses with side-shields

or

Tightly fitting safety goggles

Skin and body protection : impervious clothing

Hygiene measures : If high pressure forces the product under the skin get

immediate medical attention!

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Color : tan

Odor : mild hydrocarbon-like

Odour Threshold : No data available

pH : No data available

Melting point/range

No data available

Boiling point/boiling range : No data available

Evaporation rate : No data available

Flash point : > 200 °C

Method: open cup

Auto-flammability : No data available

Upper explosion limit : No data available
Lower explosion limit : No data available

Vapour pressure : Not applicable

Relative vapour density : No data available

Relative density : 0.8

Solubility(ies)



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Water solubility : negligible
Solubility in other solvents : partly soluble

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : not determined

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available
Viscosity, kinematic : No data available

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

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: Carbon oxides Metal oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

calcium

bis(dinonylnaphthalenesulph

onate) (Component)

: LD50: > 5,000 mg/kg

Species: Rat

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- Proprietary amine (Component)

: LD50: 1,625 mg/kg

Species: Rat

Acute inhalation toxicity

calcium

: Acute toxicity estimate: > 15 mg/l

bis(dinonylnaphthalenesulph

onate) (Component)

Method: Expert judgement

Acute dermal toxicity

calcium

: LD50: > 5,000 mg/kg

bis(dinonylnaphthalenesulph

onate) (Component)

Species: Rat

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Proprietary amine (Component)

: LD50 Dermal: > 5,000 mg/kg

Species: Rabbit

Skin irritation

1-Decene, tetramer, mixed

with 1-decene trimer,

hydrogenated (Component)

calcium

bis(dinonylnaphthalenesulph

onate) (Component)

: Species: Rabbit

Result: Irritating to skin.

: Result: No skin irritation

Remarks: see user defined free text

NJTS#: 46728100000-0002 -

Proprietary amine (Component)

: Species: Rabbit

Result: No skin irritation Method: Draize Test

Eye irritation

1-Decene, tetramer, mixed

with 1-decene trimer,

hydrogenated (Component) calcium

bis(dinonylnaphthalenesulph

onate) (Component)

NJTS#: 46728100000-0002 -

Proprietary amine

(Component)

: Result: No eye irritation

: Species: Rabbit

Result: Irritating to eyes.

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Sensitisation

calcium bis(dinonylnaphthalenesulph

onate) (Component)

: Patch Test

Species: Human

Classification: Did not cause sensitisation on laboratory animals.

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Proprietary amine (Component)

Maximisation Test (GPMT)
Species: Guinea pig

Classification: May cause sensitisation by skin contact.

Result: May cause sensitisation by skin contact.

Patch Test Species: Human

Classification: May cause sensitisation by skin contact. Result: The product is a skin sensitiser, sub-category 1A.

Aspiration toxicity (Product) : No aspiration toxicity classification

CMR effects

1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated (Component)

: Carcinogenicity: Animal testing did not show any carcinogenic effects. Mutagenicity: Animal testing did not show any mutagenic effects. Teratogenicity: No effects on or via lactation, Did not show teratogenic

effects in animal experiments.

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Reproductive toxicity: No toxicity to reproduction

lithium stearate (Component) : Mutagenicity: In vitro tests did not show mutagenic effects

calcium

bis(dinonylnaphthalenesulph

onate) (Component)

NJTS#: 46728100000-0002 -

Proprietary amine (Component)

: Mutagenicity: Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Carcinogenicity: Animal testing did not show any carcinogenic effects. Mutagenicity: Animal testing did not show any mutagenic effects., Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Further information (Product) : There is no data available for this product.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish (Product) : Remarks:

No data available

Toxicity to daphnia and other aquatic invertebrates

1-Decene, tetramer, mixed

with 1-decene trimer,

hydrogenated (Component)

: EC50: 190 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

NJTS#: 46728100000-0002 -

Proprietary amine

(Component)

: EC50: 0.68 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) semi-static test Analytical monitoring: yes

Toxicity to bacteria

NJTS#: 46728100000-0002 -

Proprietary amine (Component)

: EC50: 2 mg/l

Exposure time: 48 h Species: Protozoa

EC50: > 10,000 mg/lExposure time: 3 h Species: Bacteria

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NJTS#: 46728100000-0002 - : NOEC: 0.02 mg/l Exposure time: 21 d Proprietary amine

(Component) Species: Daphnia magna (Water flea)

Analytical monitoring: yes

Elimination information (persistence and degradability)

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Bioaccumulation (Product) : Remarks:

No data available

Mobility (Product) : Remarks:

No data available

Biodegradability (Product) : Result: No data available

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment (Product)

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological information (Product)

: There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

ADR

Not dangerous goods

RID

Not dangerous goods

MERCOSUR

Not dangerous goods

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods



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SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
aniline	62-53-3	5000	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
aniline	62-53-3	5000	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Acute Health Hazard

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 contains a chemical known to the

State of California to cause cancer.

aniline 62-53-3

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

US.TSCA On TSCA Inventory

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

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
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.

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