



SAFETY DATA SHEET

ROYCO 43 SAE-AMS-G-4343

Version: 1.1

Revision Date: 01/08/2015

Print Date: 01/21/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ROYCO 43 SAE-AMS-G-4343
(SAE-AMS-G-4343C) PNEUMATIC SYSTEMS GREASE

Product Use Description: Lubricant

Company: Manufacturer
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

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**

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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.

OSHA

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 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 : Sensitisation
- Notes to physician : 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

Advice on safe handling : Handle in accordance with good industrial hygiene and safety 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) NJTS#: 46728100000-0002 - Proprietary amine (Component) | : LD50: > 5,000 mg/kg Species: Rat : LD50: 1,625 mg/kg Species: Rat |
| Acute inhalation toxicity calcium bis(dinonylnaphthalenesulph onate) (Component) | |



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NJTS#: 46728100000-0002 - : LD50 Dermal: > 5,000 mg/kg
Proprietary amine : Species: Rabbit
(Component)

Skin irritation
1-Decene, tetramer, mixed : Result: No skin irritation
with 1-decene trimer,
hydrogenated (Component)
calcium : Species: Rabbit
bis(dinonylnaphthalenesulph : Result: Irritating to skin.
onate) (Component) : Remarks: see user defined free text

NJTS#: 46728100000-0002 - : Species: Rabbit
Proprietary amine : Result: No skin irritation
(Component) : Method: Draize Test

Eye irritation
1-Decene, tetramer, mixed : Result: No eye irritation
with 1-decene trimer,
hydrogenated (Component)
calcium : Species: Rabbit
bis(dinonylnaphthalenesulph : Result: Irritating to eyes.
onate) (Component)
NJTS#: 46728100000-0002 - : Species: Rabbit
Proprietary amine : Result: No eye irritation
(Component) : Method: OECD Test Guideline 405

Sensitisation
calcium : Patch Test
bis(dinonylnaphthalenesulph : Species: Human
onate) (Component) : Classification: Did not cause sensitisation on laboratory animals.

NJTS#: 46728100000-0002 - : Maximisation Test (GPMT)
Proprietary amine : Species: Guinea pig
(Component) : 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 : Carcinogenicity: Animal testing did not show any carcinogenic effects.
with 1-decene trimer, : Mutagenicity: Animal testing did not show any mutagenic effects.
hydrogenated (Component) : 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(dinonylnaphthalenesulphonate) (Component) : Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- NJTS#: 46728100000-0002 - Proprietary amine (Component) : 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/l
Exposure time: 3 h
Species: Bacteria

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

- NJTS#: 46728100000-0002 - Proprietary amine (Component) : NOEC: 0.02 mg/l
Exposure time: 21 d
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 (lbs) | Calculated product RQ (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 (lbs) | Calculated product RQ (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

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

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

| | | |
|-----------------------|---------------------|----------------------|
| <u>Latin America:</u> | 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.