

ROYCO C-201

Version 1.4

Revision Date 27.07.2017

Print Date 27.06.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : ROYCO C-201

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Lubricant

Recommended restrictions on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company: Supplier
LANXESS Solutions UK Ltd.
Tenax Road, Trafford Park
Manchester
United Kingdom
M17 1WT

Customer Service: +44 161 875 3800
Prepared by Product Safety Department
(US) +1 866-430-2775

Further information for the safety data sheet :
msdsrequest@chemtura.com

1.4 Emergency telephone number

Emergency telephone number: +44 (0) 1235 239 670 (NCEC)

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

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Additional Labelling:

EUH210 .Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Lubricant

Hazardous components

| Chemical name | CAS-No. EC-No. Registration number | Classification (REGULATION (EC) No 1272/2008) | Concentration (%) |
|---|--|---|----------------------|
| calcium bis(dinonylnaphthalenesulphonate) | 57855-77-3 260-991-2 01-2119980985-16-xxxx | Skin Irrit.2; H315 Eye Irrit.2; H319 | >= 1 - < 10 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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.

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- In case of skin contact : Wash off with warm water and soap.
If skin irritation persists, call a physician.
Cool skin rapidly with cold water after contact with molten material.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention immediately.
- If swallowed : Do NOT induce vomiting.
Obtain medical attention.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : None known.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : (on small fires)
Carbon dioxide (CO₂)
Dry chemical
Dry sand
Extinguishing media - large fires
Water mist
Foam
- Unsuitable extinguishing media : Water spray jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Burning produces irritant fumes.
Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
- Further information : Cool containers/tanks with water spray.

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SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Wear suitable protective equipment.

6.2 Environmental precautionsEnvironmental precautions : Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.**6.3 Methods and material for containment and cleaning up**Methods for cleaning up : Dam up.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Pick up and transfer to properly labelled containers.**6.4 Reference to other sections**

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Wear suitable protective equipment.
Avoid contact with skin, eyes and clothing.
Keep tightly closed.
Protect from contamination.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. Avoid breathing vapours, mist or gas.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep tightly closed in a dry, cool and well-ventilated place.

Further information on storage conditions : Keep away from oxidizing agents.

Other data : Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : Raw material for industry

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|-----------------------------|-----------|-------------------------------|--------------------|---------|
| iron tris(2-ethylhexanoate) | 7321-53-1 | TWA | 1 mg/m3 (Iron) | GB EH40 |
| iron tris(2-ethylhexanoate) | 7321-53-1 | STEL | 2 mg/m3 (Iron) | GB EH40 |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Component | End Use | Exposure routes | Potential health effects | Value: |
|--|---------|-----------------|----------------------------|---------------|
| calcium bis(dinonylnaphthalenesulpho nate) | Workers | Dermal | Long-term systemic effects | 0.00032 mg/kg |
| | Workers | Inhalation | Long-term systemic effects | 2.23 mg/m3 |

8.2 Exposure controls

Engineering measures

Use with adequate ventilation.

Personal protective equipment

Eye protection : Safety goggles

Hand protection

: When handling hot material, use heat resistant gloves.

Skin and body protection : Impervious clothing

Respiratory protection : No personal respiratory protective equipment normally required.
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Environmental exposure controls

General advice : Should not be released into the environment., Do not flush into surface water or sanitary sewer system.

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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|--|--------------------------------|
| Appearance | : viscous liquid |
| Colour | : tan |
| Odour | : mild |
| Odour Threshold | : No data available |
| pH | : No data available |
| Melting point/range | : No data available |
| Boiling point/boiling range | : No data available |
| Flash point | : > 200 °C Method: open cup |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : 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 | : 1.34 |
| Density | : 0.9 - 0.95 g/cm ³ |
| Solubility(ies) | |
| 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 |

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

9.2 Other information

Self-Accelerating decomposition temperature (SADT) : Method: No information available.

Oxidizing potential : No information available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture
Contamination

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Oxides of calcium
Sulphur oxides
Carbon oxides

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product:**

Acute oral toxicity : Remarks: Not classified due to lack of data.

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Acute inhalation toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity : Remarks: Not classified due to lack of data.

Components:

calcium bis(dinonylnaphthalenesulphonate):

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : > 15 mg/l
Test atmosphere: dust/mist
Method: Expert judgement

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Skin corrosion/irritation

Product:

Remarks: Not classified due to lack of data.

Components:

calcium bis(dinonylnaphthalenesulphonate):

Species: Rabbit

Result: Irritating to skin.

Remarks: see user defined free text

Serious eye damage/eye irritation

Product:

Remarks: Not classified due to lack of data.

Components:

calcium bis(dinonylnaphthalenesulphonate):

Species: Rabbit

Result: Irritating to eyes.

Respiratory or skin sensitisation

Product:

Remarks: Not classified due to lack of data.

Components:

calcium bis(dinonylnaphthalenesulphonate):

Test Type: Patch Test

Species: Human

Assessment: Did not cause sensitisation on laboratory animals.

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Germ cell mutagenicity

Product:

Germ cell mutagenicity
Assessment : Not classified due to lack of data.

Components:

calcium bis(dinonylnaphthalenesulphonate):

Genotoxicity in vitro : Test Type: Ames test
Result: negative
Remarks: Information given is based on data obtained from
similar substances.

Germ cell mutagenicity
Assessment : Tests on bacterial or mammalian cell cultures did not show
mutagenic effects.

Carcinogenicity

Product:

Carcinogenicity
Assessment : Not classified due to lack of data.

Reproductive toxicity

Product:

Reproductive toxicity
Assessment : Not classified due to lack of data.

STOT - single exposure

Product:

Assessment: Not classified due to lack of data.

STOT - repeated exposure

Product:

Assessment: Not classified due to lack of data.

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: No data is available on the product itself.

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SECTION 12: Ecological information**12.1 Toxicity****Product:**

Toxicity to fish : Remarks: No data available

Further information

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 2.66 %

12.2 Persistence and degradability**Product:**

Biodegradability : Result: No data available

Components:**calcium bis(dinonylnaphthalenesulphonate):**Biodegradability : Result: According to the results of tests of biodegradability this product is not readily biodegradable.
Remarks: Information given is based on data obtained from similar substances.**12.3 Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

Components:**calcium bis(dinonylnaphthalenesulphonate):**Partition coefficient: n- : log Pow: 10.96
octanol/water Method: estimated**12.4 Mobility in soil****Product:**

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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12.6 Other adverse effects**Product:**

Additional ecological information : Remarks: No information on ecology is available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : In accordance with local and national regulations.

SECTION 14: Transport information**14.1 UN number**

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

Not applicable

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Regulation (EC) No 850/2004 on persistent organic pollutants

Not applicable

Water contaminating class (Germany) : WGK 1 slightly water endangering
Classification according VwVwS, Annex 4.

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 : 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
TCSI : Not in compliance with the inventory
US.TSCA : On TSCA Inventory

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Emergency Phone Number

| | | |
|----------------------|--|-----------------------------|
| <u>Europe:</u> | All European Countries | +44 (0) 1235 239 670 (NCEC) |
| <u>Asia Pacific:</u> | East / South East Asia – Regional Number | +65 3158 1074 (NCEC) |
| | Australia | +61 2 8014 4558 |
| | New Zealand | +64 9929 1483 (NCEC) |
| | China | +86 512 8090 3042 (NCEC) |

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| | | |
|--|--------------------------------|-----------------------------|
| | Taiwan | +886 2 8793 3212 (NCEC) |
| | Japan | +81 3 4578 9341 (NCEC) |
| | Indonesia | 007 803 011 0293 (NCEC) |
| | Malaysia | +60 3 6207 4347 (NCEC) |
| | Thailand | 001 800 120 666 751 (NCEC) |
| | Korea | +65 3158 1285 (NCEC) |
| | Vietnam | +84 8 4458 2388 (NCEC) |
| | India | +65 3158 1198 (NCEC) |
| | Pakistan | +65 3158 1329 (NCEC) |
| | Philippines | +65 3158 1203 (NCEC) |
| | Sri Lanka | +65 3158 1195 (NCEC) |
| | Bangladesh | +65 3158 1200 (NCEC) |
| | | |
| | <u>Middle East / Africa:</u> | +44 (0) 1235 239 671 (NCEC) |
| | | |
| | <u>North America</u> | |
| | United States of America (USA) | (800) 424-9300 (CHEMTREC) |
| | Canada | (800) 424-9300 (CHEMTREC) |
| | | |
| | <u>Latin America</u> | |
| | Mexico | +52 555 004 8763 (NCEC) |
| | Brazil | +55 11 3197 5891 (NCEC) |
| | Chile | +56 2 2582 9336 (NCEC) |
| | All other countries | +44 (0) 1235 239 670 (NCEC) |

Further information

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.