



# Material Safety Data Sheet



## ROYCO C-201

Version: 1.0

Revision Date: 06/09/2011

Print Date: 09/12/2011

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ROYCO C-201

Product Use Description: Grease

Chemical nature: Lubricant

Company: Manufacturer  
Anderol Specialty Lubricants, a division of Chemtura Corporation  
215 Merry Lane  
East Hanover, NJ  
07936  
United States of America  
  
Telephone: 973-887-7410

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  
06/09/2011 +011-886-2-2712-5668 MSDSRequest@chemtura.com

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### CAUTION!

Form: paste      Colour: tan      Odour: mild

Hazard Summary : Causes eye and skin irritation.

OSHA Hazards : THIS MATERIAL IS HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200.

#### Potential Health Effects

Primary Routes of Entry : Skin contact



# Material Safety Data Sheet



## ROYCO C-201

Version: 1.0

Revision Date: 06/09/2011

Print Date: 09/12/2011

Eye contact

Aggravated Medical Condition : Skin disorders

Inhalation : May cause respiratory tract irritation.

Skin : Causes skin irritation.

Eyes : Causes eye irritation.

Ingestion : May be harmful if swallowed.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component / CAS-No.	Weight percent
calcium bis(dinonylnaphthalenesulphonate) 57855-77-3	1 - 5 %
iron tris(2-ethylhexanoate) 7321-53-1	1 - 5 %

### SECTION 4. FIRST AID MEASURES

#### First aid procedures

Inhalation : Remove to fresh air.  
Aspiration may cause pulmonary oedema and pneumonitis.  
If breathing is difficult, give oxygen.  
If symptoms persist, call a physician.

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.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Get medical attention immediately.

Ingestion : Do NOT induce vomiting.  
Obtain medical attention.  
Never give anything by mouth to an unconscious person.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point : > 392 °F (> 200 °C)  
Method: open cup



# Material Safety Data Sheet



## ROYCO C-201

Version: 1.0

Revision Date: 06/09/2011

Print Date: 09/12/2011

Ignition temperature : Remarks: not determined  
Lower explosion limit : Remarks: no data available  
Upper explosion limit : Remarks: no data available

### Fire fighting

Suitable extinguishing media : (on small fires)  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Dry sand  
Extinguishing media - large fires  
Water mist  
Foam

Unsuitable extinguishing media : Water spray jet  
Further information : Cool containers / tanks with water spray.

### Protective equipment and precautions for firefighters

Specific hazards during fire fighting : Burning produces irritant fumes.  
Exposure to decomposition products may be a hazard to health.  
Special protective equipment for fire-fighters : 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 : Wear suitable protective equipment.  
Environmental precautions : Should not be released into the environment.  
Do not flush into surface water or sanitary sewer system.  
Methods for containment / 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.

## SECTION 7. HANDLING AND STORAGE

Handling  
Handling procedures : 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.



## ROYCO C-201

Version: 1.0

Revision Date: 06/09/2011

Print Date: 09/12/2011

### Storage

- 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 strong oxidizing agents.  
Other data : Stable under recommended storage conditions.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Contains no substances with occupational exposure limit values.

### Engineering measures

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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

- Form : paste  
Colour : tan
- Odour : mild

### Safety data

- Flash point : > 392 °F (> 200 °C)  
Method: open cup
- Ignition temperature : Remarks: not determined
- Lower explosion limit : Note: no data available



## ROYCO C-201

Version: 1.0

Revision Date: 06/09/2011

Print Date: 09/12/2011

Upper explosion limit : Note: no data available  
Boiling point/boiling range : Note: no data available  
Density : 0.9 - 0.95 g/cm<sup>3</sup>  
Specific Gravity : 1.34 at  
Water solubility : Note: negligible  
Solubility in other solvents : Note: partly soluble

### SECTION 10. STABILITY AND REACTIVITY

Materials to avoid : Remarks: Strong oxidizing agents  
Hazardous decomposition products : Note: Oxides of calcium  
Sulphur oxides  
Carbon oxides  
Hazardous reactions : Hazardous polymerisation does not occur.

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity  
calcium bis(dinonylnaphthalenesulphonate) : LD50: > 5,000 mg/kg  
Species: rat  
Acute inhalation toxicity  
calcium bis(dinonylnaphthalenesulphonate) : Acute toxicity estimate: > 15 mg/l  
Method: Expert judgement  
Acute dermal toxicity  
calcium bis(dinonylnaphthalenesulphonate) : LD50: > 5,000 mg/kg  
Species: rat  
Skin irritation : Remarks: May irritate skin.  
Eye irritation : Remarks: May irritate eyes.  
Sensitisation  
calcium bis(dinonylnaphthalenesulphonate) : Patch Test  
Species: Human  
Classification: Did not cause sensitization on laboratory animals.



# Material Safety Data Sheet



## ROYCO C-201

Version: 1.0

Revision Date: 06/09/2011

Print Date: 09/12/2011

CMR effects  
calcium bis(dinonylnaphthalenesulphonate) : Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Further information : No data is available on the product itself.

### 12. ECOLOGICAL INFORMATION

Biodegradability  
calcium bis(dinonylnaphthalenesulphonate) : 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.

#### Further information on ecology

Additional ecological information : No information on ecology is available.

### SECTION 13. DISPOSAL CONSIDERATIONS

Further information : In accordance with local and national regulations.

### SECTION 14. TRANSPORT INFORMATION

**DOT**  
Not dangerous goods

**TDG**  
Not dangerous goods

**IATA**  
Not dangerous goods

**IMDG**  
Not dangerous goods

**RID**  
Not dangerous goods

### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**SARA 311/312 Hazards** : Acute Health Hazard



# Material Safety Data Sheet



## ROYCO C-201

Version: 1.0

Revision Date: 06/09/2011

Print Date: 09/12/2011

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

<b>US.TSCA</b>	On TSCA Inventory
<b>DSL</b>	All components of this product are on the Canadian DSL list.
<b>AICS</b>	Not in compliance with the inventory
<b>NZIoC</b>	Not in compliance with the inventory
<b>ENCS</b>	Not in compliance with the inventory
<b>KECI</b>	On the inventory, or in compliance with the inventory
<b>PICCS</b>	On the inventory, or in compliance with the inventory
<b>IECSC</b>	Not in compliance with the inventory

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

### SECTION 16. OTHER INFORMATION

**Further information**

**HMIS Classification** : Health hazard: 1  
Flammability: 1  
Reactivity: 0

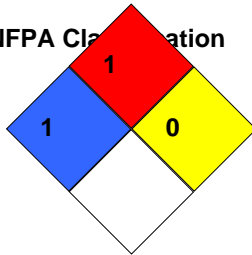
## ROYCO C-201

Version: 1.0

Revision Date: 06/09/2011

Print Date: 09/12/2011

**NFPA Classification**



: Health hazard: 1  
 Fire Hazard: 1  
 Reactivity Hazard: 0

**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.