



# Material Safety Data Sheet



## ROYCO 22MS MIL-G-81827A

Version: 1.0

Revision Date: 07/14/2010

Print Date: 09/12/2011

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *ROYCO 22MS MIL-G-81827A*

Product Use Description: Grease  
Lubricant

Company: 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: 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

+011-886-2-2712-5668    MSDSRequest@chemtura.com

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### **WARNING!**

Form: paste      Colour: black      Odour: mild hydrocarbon-like

Hazard Summary : Causes eye and skin irritation.  
Chronic ingestion may cause effects in the following:  
May cause cancer.



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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  
Eye contact

Inhalation : May cause respiratory tract irritation.

Skin : Causes skin irritation.

Eyes : Causes eye irritation.

Ingestion : May be harmful if swallowed.

Chronic Exposure : Chronic ingestion may cause effects in the following:  
Cancer

Carcinogenicity:

**IARC**

Group 2A: Probably carcinogenic to humans  
sodium nitrite 7632-00-0

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component	CAS-No.	Weight percent
sodium nitrite	7632-00-0	1 - < 5 %
pentaerythritol	115-77-5	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.



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- Skin contact : Wash off with warm water and soap.  
If skin irritation persists, call a physician.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Obtain medical attention.
- Ingestion : Obtain medical attention.  
Never give anything by mouth to an unconscious person.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Flammable properties

- Flash point : > 446 °F (230 °C)  
Method: open cup
- 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  
Foam  
Water mist
- Unsuitable extinguishing media : High volume water jet
- Further information : Cool containers / tanks with water spray.

#### Protective equipment and precautions for firefighters

- Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.  
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.



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### 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 : Scrape up.  
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.  
Avoid contact with skin, eyes and clothing.  
Wear suitable protective equipment.  
Keep tightly closed.  
Protect from contamination.

#### Storage

- Requirements for storage areas and containers : Keep tightly closed in a dry, cool and well-ventilated place.  
Protect from contamination.
- Other data : Stable under recommended storage conditions.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

#### Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	Further information
pentaerythritol 115-77-5	TWA ACGIH 2007-01-01	10 mg/m <sup>3</sup>	
	TWA OSHA P1 2007-01-01	15 mg/m <sup>3</sup>	
	TWA OSHA P1	5 mg/m <sup>3</sup>	



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	2007-01-01		
	TWA OSHA P0 1989-01-19	10 mg/m3	
	TWA OSHA P0 1989-01-19	5 mg/m3	

### Engineering measures

### Personal protective equipment

- Eye protection : Safety glasses with side-shields  
or  
Tightly fitting safety goggles
- Hand protection : Impervious gloves
- Skin and body protection : impervious clothing
- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.  
Respirator with combination filter for vapour/particulate (EN 141).
- Hygiene measures : If high pressure forces the product under the skin get immediate medical attention!

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

- Form : paste
- Colour : black
- Odour : mild  
hydrocarbon-like

### Safety data

- Flash point : > 446 °F (230 °C)  
Method: open cup



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Ignition temperature : Remarks: not determined  
Lower explosion limit : Note: no data available  
Upper explosion limit : Note: no data available  
Boiling point/boiling range : Note: no data available  
Specific Gravity : 0.8 at  
Water solubility : Note: negligible  
Partition coefficient: n-octanol/water : Note: no data available  
Solubility in other solvents : Note: partly soluble

### SECTION 10. STABILITY AND REACTIVITY

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

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: > 5,000 mg/kg  
Species: rat

### 12. ECOLOGICAL INFORMATION

#### Further information on ecology

Additional ecological information : There is no data available for this product.

### SECTION 13. DISPOSAL CONSIDERATIONS

Further information : In accordance with local and national regulations.



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### 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  
Chronic Health Hazard

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

**TSCA** : On TSCA Inventory

**DSL** : All components of this product are on the Canadian DSL list.

### SECTION 16. OTHER INFORMATION

**Further information**

**HMIS Classification** : Health hazard: 1



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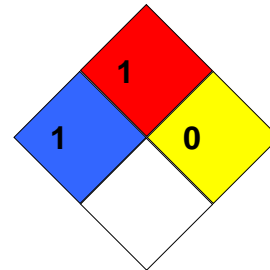
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Chronic Health Hazard: \*  
Flammability: 1  
Reactivity: 0

**NFPA Classification** : Health hazard: 1  
Fire Hazard: 1  
Reactivity Hazard: 0



### Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
<u>Mexico:</u>		+52 555 004 87 63

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.