



Material Safety Data Sheet



ROYCO 500 MIL-PRF-23699F

Version: 1.2

Revision Date: 12/20/2010

Print Date: 09/12/2011

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *ROYCO 500 MIL-PRF-23699F*

Product Use Description: 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 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

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

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

Form: liquid Colour: amber Odour: mild

Hazard Summary : May cause eye and skin irritation.

OSHA Hazards : THIS MATERIAL IS NOT HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200.



Material Safety Data Sheet



ROYCO 500 MIL-PRF-23699F

Version: 1.2

Revision Date: 12/20/2010

Print Date: 09/12/2011

Potential Health Effects

- Primary Routes of Entry : Eye contact
Skin contact
- Aggravated Medical Condition : Skin disorders
- Inhalation : May cause respiratory tract irritation.
- Skin : May cause skin irritation.
Prolonged or repeated contact may dry skin and cause irritation.
- Eyes : May cause eye irritation.
- Ingestion : May be harmful if swallowed.
Aspiration hazard if swallowed - can enter lungs and cause damage.
- Symptoms of Overexposure : No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

No ingredients are hazardous according to HCS criteria.

SECTION 4. FIRST AID MEASURES

First aid procedures

- Inhalation : If inhaled
Move to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
In case of bluish discoloration (lips, ear lobes, fingernails), give oxygen as quickly as possible.
If symptoms persist, call a physician.
- Skin contact : In case of skin contact
Wash off with soap and water.
Remove contaminated clothing and shoes.
Wash contaminated clothing before re-use.
Get medical attention if irritation develops and persists.
- Eye contact : In case of eye contact
Rinse thoroughly with plenty of water, also under the eyelids.



Material Safety Data Sheet



ROYCO 500 MIL-PRF-23699F

Version: 1.2

Revision Date: 12/20/2010

Print Date: 09/12/2011

Ingestion : If eye irritation persists, consult a specialist.
: If swallowed, DO NOT induce vomiting.
Consult a physician if necessary.

Notes to physician

Symptoms : No information available.
Treatment : No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : 489 °F (254 °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 : Carbon dioxide (CO2)
Dry powder
Foam
Alcohol-resistant foam
Water mist
Unsuitable extinguishing media : Water
Further information : In the event of fire, cool tanks with water spray.

Protective equipment and precautions for firefighters

Specific hazards during fire fighting : Burning produces noxious and toxic fumes.
Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment.



Material Safety Data Sheet



ROYCO 500 MIL-PRF-23699F

Version: 1.2

Revision Date: 12/20/2010

Print Date: 09/12/2011

- Environmental precautions : Ensure adequate ventilation.
: Should not be released into the environment.
Do not contaminate water.
Do not flush into surface water or sanitary sewer system.
- Methods for containment /
Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
- Additional advice : Forms slippery/greasy layers with water.

SECTION 7. HANDLING AND STORAGE

Handling

- Handling procedures : Handle in accordance with good industrial hygiene and safety practice.
Keep container closed when not in use.
Do not use pressure to empty drums.
Ensure all equipment is electrically grounded before beginning transfer operations.

Storage

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

Personal protective equipment

- Eye protection : Safety glasses with side-shields
Tightly fitting safety goggles
- Hand protection : Neoprene gloves
- Skin and body protection : impervious clothing
- Respiratory protection : Breathing apparatus needed only when aerosol or mist is formed.
In the case of vapour formation use a respirator with an approved filter.



Material Safety Data Sheet



ROYCO 500 MIL-PRF-23699F

Version: 1.2

Revision Date: 12/20/2010

Print Date: 09/12/2011

Hygiene measures : Avoid contact with skin, eyes and clothing.
Provide adequate ventilation.
Do not breathe dust or spray mist.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Colour : amber

Odour : mild

Safety data

Flash point : 489 °F (254 °C)
Method: open cup

Ignition temperature : Remarks: not determined

Lower explosion limit : Note: no data available

Upper explosion limit : Note: no data available

pH : Note: not applicable

Boiling point/boiling range : Note: no data available

Vapour pressure : Note: no data available

Specific Gravity : 1 at

Water solubility : Note: slightly soluble

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: Heat.

Materials to avoid : Remarks: Strong acids and strong bases

Hazardous decomposition products : Note: Carbon oxides

Hazardous reactions : Hazardous polymerisation does not occur.



ROYCO 500 MIL-PRF-23699F

Version: 1.2

Revision Date: 12/20/2010

Print Date: 09/12/2011

SECTION 11. TOXICOLOGICAL INFORMATION

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

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

Skin irritation : Remarks: Not classified due to lack of data.

Eye irritation : Remarks: Not classified due to lack of data.

Sensitisation : Remarks: Not classified due to lack of data.

Toxicology Assessment

CMR effects : Carcinogenicity:
Not classified due to lack of data.
Mutagenicity:
Not classified due to lack of data.
Reproductive toxicity:
Not classified due to lack of data.

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

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish :
Remarks:
no data available

Toxicity to daphnia and other aquatic invertebrates. : EC50: > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Remarks:
Information given is based on data obtained from similar substances.

Toxicity to algae : Remarks:



Material Safety Data Sheet



ROYCO 500 MIL-PRF-23699F

Version: 1.2

Revision Date: 12/20/2010

Print Date: 09/12/2011

no data available

Elimination information (persistence and degradability)

Bioaccumulation : Remarks:
no data available

Mobility : Remarks:
no data available

Biodegradability : Result: no data available

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

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

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : In accordance with local and national regulations.

Contaminated packaging : Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods



Material Safety Data Sheet



ROYCO 500 MIL-PRF-23699F

Version: 1.2

Revision Date: 12/20/2010

Print Date: 09/12/2011

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SARA 311/312 Hazards : No SARA Hazards

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.

AICS : On the inventory, or in compliance with the inventory

NZIoC : 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

Further information

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



Material Safety Data Sheet



ROYCO 500 MIL-PRF-23699F

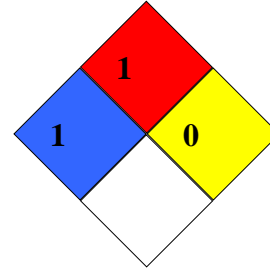
Version: 1.2

Revision Date: 12/20/2010

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	+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.