



# **ROYCO 81MS MIL-DTL-25681E**

Version: 1.1 Revision Date: 07/14/2015 Print Date: 07/17/2016

## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: ROYCO 81MS MIL-DTL-25681E

MOLYBDENUM DISULFIDE & SILICONE LUBE OIL

Product Use Description: Lubricant

Company: <u>Manufacturer</u>

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 <u>Product Safety Department</u>

(US) +1 866-430-2775

 ${\tt MSDSRequest@chemtura.com}$ 

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : For use in industrial installations only.

## **SECTION 2. HAZARDS IDENTIFICATION**

Form	paste	
Colour	No data available	
Odour	odourless	

### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS Label element**





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Other hazards : None

Not a hazardous substance or mixture.

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 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.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

## **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
molybdenum disulphide	1317-33-5	>= 30 - < 50 %

### **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.

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.

Most important symptoms and effects, both acute and

delaved

: None known.

Notes to physician : For specialist advice physicians should contact the Poisons

Information Service.





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### **SECTION 5. FIREFIGHTING MEASURES**

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

Specific hazards during

firefighting

: 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

: 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**

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.





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Conditions for safe storage : Keep tightly closed in a dry, cool and well-ventilated place.

Materials to avoid : Strong oxidizing agents

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
molybdenum disulphide	1317-33-5	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	10 mg/m3	ACGIH
		TWA (Respirable fraction)	3 mg/m3	ACGIH
		TWA (Total dust)	10 mg/m3	OSHA P0

**Engineering measures** : Use with adequate ventilation.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Remarks : When handling hot material, use heat resistant gloves.

Eye protection : Safety goggles

Skin and body protection : impervious clothing

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Use only with adequate ventilation. Avoid breathing vapours, mist or gas.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : paste

Color : No data available

Odor : odourless

Odour Threshold : No data available





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pH : No data available

Melting point/range

No data available

Boiling point/boiling range : No data available Evaporation rate : No data available

Flash point : > 300 °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 : > 1

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

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 : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Conditions to avoid : Contamination

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

Oxides of calcium Sulphur oxides

Carbon oxides





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### **SECTION 11. TOXICOLOGICAL INFORMATION**

Aspiration toxicity (Product) : No aspiration toxicity classification

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

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity effects**

: Remarks: Toxicity to fish (Product)

No data available

Toxicity to daphnia and other : Remarks:

aquatic invertebrates

(Product)

No data is available on the product itself.

### Elimination information (persistence and degradability)

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

: No information on ecology is available.

information (Product)

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

Waste from residues : In accordance with local and national regulations.

6/8 SAP 6.0 SDS 2012-2 NA GHS SDS Number: 40000001793





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## **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

## **SECTION 15. REGULATORY INFORMATION**

TSCA list : Not relevant

Not relevant

**EPCRA - Emergency Planning and Community Right-to-Know Act** 

**CERCLA Reportable Quantity** 

This material does not contain any components with a CERCLA RQ.

**SARA304** Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

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.





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**US State Regulations** 

California Prop 65 This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

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

US.TSCA On TSCA Inventory

All components of this product are on the Canadian DSL.

AICS
On the inventory, or in compliance with the inventory

NZIOC
On the inventory, or 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

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**

### Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
Mexico:		+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.