

ROYCO 81MS MIL-DTL-25681

ersion: 1.6	Revision Date: 07/11/2018	Print Date: 01/21/2020
SECTION 1. PRODUCT AND C	OMPANY IDENTIFICATION	
Product name:	ROYCO 81MS MIL-DTL-25681	
	MOLYBDENUM DISULFIDE & SILICON	IE LUBE OIL
Product Use Description:	Lubricant	
Synonyms:	Synthetic Lubricant Formulation	
Company:	<u>Manufacturer</u> Anderol Specialty Lubricants, a division 215 Merry Lane East Hanover, NJ 07936 United States of America (USA)	
Emergency telephone	Telephone: +1 203-573-4596, Toll Free CHEMTREC: (24 hours) 800-424-9300	
number:	: For additional emergency telephone nur Data Sheet.	nbers see section 16 of the Safety
Prepared by	Product Safety Department (US) +1 866-430-2775	
	MSDSRequest@lanxess.com	
Recommended use of the c	hemical 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 elements

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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 on OSHA's list of regulated carcinogens. 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 delayed	: None known.
Notes to physician	: For specialist advice physicians should contact the Poisons
SAP 6.0 SDS 2012-2 NA GHS	2 / 9 SDS Number: 40000001793

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		Information Service.	
SECTION 5. FIREFIGHTING MEA	SU	RES	
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 m health.	ay be a hazard to
Specific extinguishing methods	:	Cool containers/tanks with water spray	
Special protective equipment for firefighters	:	Self-contained breathing apparatus with operated in positive pressure mode. Body covering protective clothing, full "	

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 transfer to properly labelled containers.	

SECTION 7. HANDLING AND S	TORAGE	
Advice on safe handling	: Handle in accordance with practice. Wear suitable protective e	n good industrial hygiene and safety quipment.
SAP 6.0 SDS 2012-2 NA GHS	3 / 9	SDS Number: 40000001793



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	Avoid contact with skin, eyes and c Keep tightly closed. Protect from contamination.	clothing.
Conditions for safe storage	: Keep tightly closed in a dry, cool ar	nd 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
		PEL (Total dust)	10 mg/m3	CAL PEL
		PEL (respirable dust fraction)	3 mg/m3	CAL PEL

Engineering measures	: Use with adequate ventilation.
Personal protective equipme	ent
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.
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Avoid breathing vapours, mist or gas.

Appearance	: paste
Color	: No data available
Odor	: odourless
Odour Threshold	: No data available
рН	: 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
<u>Solubility(ies)</u>	
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



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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		

SECTION 11. TOXICOLOGICAL INFORMATION

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 on OSHA's list of regulated carcinogens.
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.

STOT - repeated exposure

Components:

molybdenum disulphide: Exposure routes: Oral Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:

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Remarks: No data is available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity			
<u>Product:</u> Toxicity to fish	:		
		Remarks: No data available	
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data is available on the product itself.	
Persistence and degradability			
Product:			
Biodegradability	:	Result: No data available	
Bioaccumulative potential			
Product:		Demonias Na data available	
Bioaccumulation	•	Remarks: No data available	
Mobility in soil			
Product:		Remarks: No data available	
Mobility	:	Remarks. No data avaliable	
Other adverse effects			
Product:		-	
Results of PBT and vPvB assessment	:	This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).	
Additional ecological information	:	No information on ecology is available.	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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



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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

National Regulations

49 CFR Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

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.

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.

SAP 6.0	SDS 2012-2	NA GHS
DAI 0.0	000 2012-2	INA OILD

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AICS

NZIOC

ENCS

KECI

PICCS

IECSC

TCSI

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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 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory **US.TSCA On TSCA 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.