



SAFETY DATA SHEET

ROYCO 770 MIL-PRF-46170D TYPE 1

Version: 1.0

Revision Date: 12/05/2014

Print Date: 04/22/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ROYCO 770 MIL-PRF-46170D TYPE 1

Product Use Description: Lubricant

Company: Manufacturer
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 Product Safety Department
(US) +1 866-430-2775

MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

Form	liquid
Colour	amber
Odour	mild characteristic

GHS Classification

Acute aquatic toxicity : Category 3
Chronic aquatic toxicity : Category 3

GHS Label element

Hazard statements : H412 Harmful to aquatic life with long lasting effects.



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Other hazards : None

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

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 probable, possible or confirmed human carcinogen by IARC.

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.

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.

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 (%)
NJTS# 136411-5778P Polyolefins		>= 50 - < 70 %
NJTS# 136411-5892P Barium compounds		>= 1 - < 5 %
Phenol, isobutylenated, phosphate (3:1)	68937-40-6	>= 1 - < 5 %

SECTION 4. FIRST AID MEASURES

If inhaled : If inhaled
Move to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
In case of bluish discolouration (lips, ear lobes, fingernails), give oxygen as quickly as possible.
If symptoms persist, call a physician.



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- | | | |
|---|---|--|
| In case of 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. |
| In case of eye contact | : | In case of eye contact
Rinse thoroughly with plenty of water, also under the eyelids.
If eye irritation persists, consult a specialist. |
| If swallowed | : | If swallowed, DO NOT induce vomiting.
Consult a physician if necessary. |
| Most important symptoms and effects, both acute and delayed | : | None known. |
| Notes to physician | : | For specialist advice physicians should contact the Poisons Information Service. |

SECTION 5. FIREFIGHTING MEASURES

- | | | |
|---|---|--|
| Suitable extinguishing media | : | Carbon dioxide (CO ₂)
Dry powder
Sand
Alcohol-resistant foam
Water mist |
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during firefighting | : | Burning produces noxious and toxic fumes. |
| Specific extinguishing methods | : | In the event of fire, cool tanks with water spray. |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.
Ensure adequate ventilation. |
| Environmental precautions | : | Should not be released into the environment.
Do not flush into surface water or sanitary sewer system. |

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Methods and materials for containment and 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).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Keep container closed when not in use.
Do not use pressure to empty drums.
Ensure all equipment is electrically grounded before beginning transfer operations.

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

Materials to avoid : Strong acids and strong bases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
NJTS# 136411-5778P Polyolefins		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA P0

Engineering measures : Effective exhaust ventilation system
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

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.

Hand protection
Remarks : Neoprene gloves

Eye protection : Safety glasses with side-shields
Tightly fitting safety goggles

Skin and body protection : impervious clothing

Hygiene measures : Avoid contact with skin, eyes and clothing.
Handle in accordance with good industrial hygiene and safety practice.

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Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: amber
Odor	: mild characteristic
Melting point/range	: Not applicable
Boiling point/boiling range	: No data available
Flash point	: 221 °C
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative density	: 0.86
<u>Solubility(ies)</u>	
Water solubility	: slightly soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: not determined
Viscosity	
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 Heat, flames and sparks.
Incompatible materials	: Strong acids and strong bases
Hazardous decomposition products	: Carbon oxides Oxides of phosphorus

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Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity (Product) : Acute toxicity estimate: > 40 mg/l
Exposure time: 4 h

Method: Calculation method

Skin irritation
NJTS# 136411-5778P : Result: No skin irritation
Polyolefins (Component)

Eye irritation
NJTS# 136411-5778P : Result: No eye irritation
Polyolefins (Component)

Aspiration toxicity (Product) : No aspiration toxicity classification

CMR effects
NJTS# 136411-5778P : Carcinogenicity: Animal testing did not show any carcinogenic effects.
Polyolefins (Component) : Mutagenicity: Animal testing did not show any mutagenic effects.
Teratogenicity: No effects on or via lactation, Did not show teratogenic effects in animal experiments.
Reproductive toxicity: No toxicity to reproduction

Further information (Product) : The product itself has not been tested.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish (Product) : Remarks:
No data available

Toxicity to daphnia and other aquatic invertebrates



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NJTS# 136411-5778P : EC50: 190 mg/l
Polyolefins (Component) Exposure time: 48 h
Species: Daphnia magna (Water flea)

Phenol, isobutyleneated, : EC50: 0.202 mg/l
phosphate (3:1) Exposure time: 48 h
(Component) Species: Daphnia magna (Water flea)

Toxicity to fish (Chronic toxicity)
Phenol, isobutyleneated, : NOEC: 0.093 mg/l
phosphate (3:1) Exposure time: 90 d
(Component)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
Phenol, isobutyleneated, : NOEC: 0.0399 mg/l
phosphate (3:1) Exposure time: 21 d
(Component)

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 : The product itself has not been tested.
information (Product)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : In accordance with local and national regulations.
Dispose of wastes in an approved waste disposal facility.
Do not contaminate ponds, waterways or ditches with
chemical or used container.

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

SECTION 14. TRANSPORT INFORMATION



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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

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 : The following components are subject to reporting levels established by SARA Title III, Section 313:
NJTS# 136411-5892P 2.2417
Barium compounds

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

DSL

All components of this product are on the Canadian DSL.

AICS

On the inventory, or in compliance with the inventory



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NZIoC
ENCS
KECI
PICCS
IECSC

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

SECTION 16. OTHER INFORMATION

Further information

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.