



SAFETY DATA SHEET

ROYCO 889

Version: 1.0

Revision Date: 12/05/2014

Print Date: 06/19/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ROYCO 889

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

SECTION 2. HAZARDS IDENTIFICATION

| | |
|--------|--------|
| Form | liquid |
| Colour | amber |
| Odour | mild |

GHS Classification

Skin sensitisation : Category 1
Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Liver, Kidney)
Acute aquatic toxicity : Category 3
Chronic aquatic toxicity : Category 3

GHS Label element

Signal word : **Warning**

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Hazard pictograms :



Hazard statements :

H317 May cause an allergic skin reaction.
H373 May cause damage to organs (Liver, Kidney) through prolonged or repeated exposure if swallowed.
H412 Harmful to aquatic life with long lasting effects.

Other hazards :

None

Precautionary statements :

Prevention:
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P314 Get medical advice/ attention if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
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.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

| Chemical Name | CAS-No. | Concentration (%) |
|--|-------------|-------------------|
| A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate | 125643-61-0 | >= 1 - < 5 % |
| NJTS#: 46728100000-0002 - Proprietary amine | | >= 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 discoloration (lips, ear lobes, fingernails), give oxygen as quickly as possible. If symptoms persist, call a physician. |
| 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 | : No information available. |
| Notes to physician | : No information available. |

SECTION 5. FIREFIGHTING MEASURES

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Carbon dioxide (CO ₂) Dry powder Foam Alcohol-resistant foam Water mist |
| Unsuitable extinguishing media | : High volume water jet |



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- 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 contaminate water. Do not flush into surface water or sanitary sewer system.
- 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 : 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.
- 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#: 46728100000-0002 - Proprietary amine | | TWA | 10 ml/m3 | ACGIH |

Personal protective equipment

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| | |
|----------------------------|--|
| 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. Provide adequate ventilation. Do not breathe dust or spray mist. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--------------------------------|
| Appearance | : liquid |
| Color | : amber |
| Odor | : mild |
| pH | : No data available |
| Melting point/range | : Not applicable |
| Boiling point/boiling range | : No data available |
| Flash point | : > 204 °C Method: open cup |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Vapour pressure | : No data available |
| Relative density | : 1.05 |
| <u>Solubility(ies)</u> | |
| Water solubility | : slightly soluble |
| Partition coefficient: n-octanol/water | : No data available |
| Auto-ignition temperature | : No data available |
| Viscosity | |
| Viscosity, kinematic | : No data available |

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SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Hazardous polymerisation does not occur.
Conditions to avoid : Heat.
Incompatible materials : Strong acids and strong bases
Hazardous decomposition products : Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute inhalation toxicity
A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate (Component) : Remarks: This information is not available.

Acute dermal toxicity (Product) : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Skin irritation
A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate (Component) : Species: Rabbit
Result: No skin irritation
NJTS#: 46728100000-0002 - Proprietary amine (Component) : Species: Rabbit
Result: No skin irritation
Method: Draize Test

Eye irritation
A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate (Component) : Species: Rabbit
Result: No eye irritation
NJTS#: 46728100000-0002 - Proprietary amine (Component) : Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

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Sensitisation

A mixture of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate (Component) : Maximisation Test (GPMT)
Species: Guinea pig
Classification: Did not cause sensitisation on laboratory animals.
Result: Did not cause sensitisation on laboratory animals.

NJTS#: 46728100000-0002 - Proprietary amine (Component) : Maximisation Test (GPMT)
Species: Guinea pig
Classification: May cause sensitisation by skin contact.
Result: May cause sensitisation by skin contact.

Patch Test

Species: Human
Classification: May cause sensitisation by skin contact.
Result: The product is a skin sensitiser, sub-category 1A.

CMR effects

NJTS#: 46728100000-0002 - Proprietary amine (Component) : Carcinogenicity: Animal testing did not show any carcinogenic effects.
Mutagenicity: Animal testing did not show any mutagenic effects., Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

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

Toxicity to daphnia and other aquatic invertebrates (Product) : Remarks:
No data available

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

Toxicity to bacteria
NJTS#: 46728100000-0002 - Proprietary amine (Component) : EC50: 2 mg/l
Exposure time: 48 h
Species: Protozoa

EC50: > 10,000 mg/l
Exposure time: 3 h



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Species: Bacteria

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NJTS#: 46728100000-0002 - : NOEC: 0.02 mg/l

Proprietary amine Exposure time: 21 d

(Component) Species: Daphnia magna (Water flea)

Analytical monitoring: yes

Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:
No data available

Mobility (Product) : Remarks:
No data available

Biodegradability

A mixture of isomers of: C7- : Result: Not readily biodegradable.

9-alkyl 3-(3,5-di-trans-butyl-

4-hydroxyphenyl)propionate

(Component)

NJTS#: 46728100000-0002 - : aerobic

Proprietary amine Result: According to the results of tests of biodegradability this

(Component)

product is not readily biodegradable.

0 %

Method: OECD Test Guideline 301

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment (Product)

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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

information (Product)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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

ADR

Not dangerous goods



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RID

Not dangerous goods

MERCOSUR

Not dangerous goods

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : D2B: Toxic Material Causing Other Toxic Effects

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

CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|-----------------|----------|--------------------|-----------------------------|
| 1-naphthylamine | 134-32-7 | 100 | * |
| 2-naphthylamine | 91-59-8 | 10 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------|---------|--------------------|-----------------------------|
| aniline | 62-53-3 | 5000 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

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

WARNING! This product contains a chemical known to the State of California to cause cancer.

| | |
|-----------------|----------|
| aniline | 62-53-3 |
| 1-naphthylamine | 134-32-7 |
| 2-naphthylamine | 91-59-8 |

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

| | |
|----------------|---|
| REACH | Not in compliance with the inventory |
| CH INV | The formulation contains substances listed on the Swiss Inventory |
| 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 |
| NZIoC | On the inventory, or in compliance with the inventory |
| ENCS | On the inventory, or in compliance with the inventory |
| ISHL | Not 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

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.