

ROYCO LANDING GEAR FLUID YELLOW

| Version: 1.1 | Revision Date: 12/19 | /2014 | Print Date: 03/24/2016 |
|-----------------------------|--|-------------------------|-----------------------------|
| SECTION 1. PRODUCT AND CO | | ЛС | |
| Product name: | ROYCO LANDING GE | AR FLUID YELLOW | 1 |
| | | | |
| Product Use Description: | Lubricant | | |
| Company: | Manufacturer Anderol Specialty Lubrica 215 Merry Lane East Hanover, NJ 07936 United States of America | | ntura Corporation |
| | Telephone: +1 203-573- | 4596, Toll Free: +1 888 | }-263-3765 |
| Emergency telephone number: | CHEMTREC: (24 hours : : 703-527-3887 |) 800-424-9300 | |
| | For additional emergency Data Sheet. | telephone numbers set | ee section 16 of the Safety |
| Prepared by | Product Safety Departme (US) +1 866-430-2775 | <u>ent</u> | |
| | MSDSRequest@chemtu | ira.com | |
| Recommended use of the che | emical and restrictions of | n use | |
| Recommended use | : Lubricant | | |

SECTION 2. HAZARDS IDENTIFICATION

| Form | liquid |
|--------|--------|
| Colour | yellow |

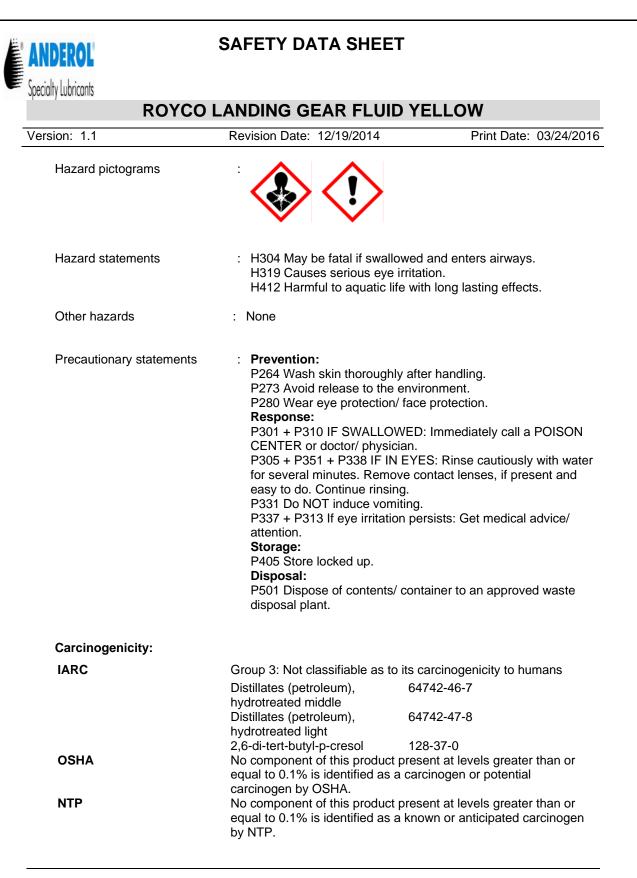
GHS Classification

| Eye irritation | : | Category 2A |
|--------------------------|---|-------------|
| Aspiration hazard | : | Category 1 |
| Acute aquatic toxicity | : | Category 3 |
| Chronic aquatic toxicity | : | Category 3 |

GHS Label element

| Signal | word | | |
|--------|------|--|--|
|--------|------|--|--|

: Danger



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

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| Chemical Name | CAS-No. | Concentration (%) |
|---|------------|-------------------|
| Distillates (petroleum), hydrotreated light naphthenic | 64742-53-6 | >= 50 - < 70 % |
| Distillates (petroleum), hydrotreated middle | 64742-46-7 | >= 10 - < 20 % |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | >= 5 - < 10 % |
| NJTS# 136411-5778P Polyolefins | | >= 1 - < 5 % |
| Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | 68649-42-3 | >= 1 - < 5 % |
| Phenol, isobutylenated, phosphate (3:1) | 68937-40-6 | >= 0.1 - < 1 % |
| 2,6-di-tert-butyl-p-cresol | 128-37-0 | >= 0.1 - < 1 % |

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. | |
|---|--|--|
| 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 | : Aspiration may cause pulmonary oedema and pneumonitis. | |

SECTION 5. FIREFIGHTING MEASURES

| Specific hazards during firefighting |
|--------------------------------------|
| |
| Unsuitable extinguishing media |
| Suitable extinguishing media |



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| methods | | |
| Special protective equipment for firefighters | : In the event of fire, wear self-con Use personal protective equipme | 5 11 |
| | | |

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 |
|---|------------|--------------------------------|---------------------------|-----------|
| Distillates (petroleum), hydrotreated light naphthenic | 64742-53-6 | TWA (Mist) | 5 mg/m3 | OSHA Z-1 |
| | | TWA (Inhalable fraction) | 5 mg/m3 | ACGIH |
| | | TWA (Mist) | 5 mg/m3 | NIOSH REL |
| | | ST (Mist) | 10 mg/m3 | NIOSH REL |
| | | TWA (Mist) | 5 mg/m3 | OSHA P0 |



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|--|----------------|---|------------------------|-----------|
| Distillates (petroleum), hydrotreated middle | 64742-46-7 | TWA | 500 ppm 2,000 mg/m3 | OSHA Z-1 |
| | | TWA (Mist) | 5 mg/m3 | OSHA Z-1 |
| | | TWA | 400 ppm 1,600 mg/m3 | OSHA P0 |
| | | TWA (Mist) | 5 mg/m3 | NIOSH REI |
| | | ST (Mist) | 10 mg/m3 | NIOSH REI |
| | | TWA (Mist) | 5 mg/m3 | OSHA P0 |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | TWA | 500 ppm 2,000 mg/m3 | OSHA Z-1 |
| | | TWA | 200 mg/m3 | ACGIH |
| | | TWA | 400 ppm 1,600 mg/m3 | OSHA P0 |
| 1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated | 68649-12-7 | TWA (Mist) | 5 mg/m3 | OSHA Z-1 |
| | | TWA (Mist) | 5 mg/m3 | NIOSH REI |
| | | ST (Mist) | 10 mg/m3 | NIOSH REI |
| | | TWA (Mist) | 5 mg/m3 | OSHA P0 |
| 2,6-di-tert-butyl-p-cresol | 128-37-0 | TWA | 10 mg/m3 | OSHA P0 |
| | | TWA (Inhalable fraction and vapor) | 2 mg/m3 | ACGIH |
| | | TWA (Inhalable fraction and vapor) | 2 mg/m3 | ACGIH |
| | | TWA | 10 mg/m3 | NIOSH REI |

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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|--|---------------------------|------------------------|
| Appearance | : liquid | |
| Color | : yellow | |
| рН | : No data available | |
| Melting point/range | : Not applicable | |
| Boiling point/boiling range | : No data available | |
| Flash point | : 111 °C | |
| Upper explosion limit | : No data available | |
| Lower explosion limit | : No data available | |
| Vapour pressure | : No data available | |
| Relative density | : No data available | |
| Density | : 0.8698 g/cm3 | |
| <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 | : 14.55 mm2/s (40 °C) | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : No dangerous reaction known under conditions of normal use. No dangerous reaction known under conditions of normal use. |
|------------------------------------|--|
| Chemical stability | : Stable under normal conditions. No decomposition if stored and applied as directed. |
| 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

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|---|---|--|
| Acute oral toxicity 2,6-di-tert-butyl-p-cresol (Component) | : LD50: > 2,930 mg/kg Species: Rat Method: OECD Test Guideline 40 | 01 |
| Acute dermal toxicity 2,6-di-tert-butyl-p-cresol (Component) | : LD50: > 2,000 mg/kg Species: Rat Method: OECD Test Guideline 40 | 02 |
| Skin irritation 1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated (Component) | : Result: No skin irritation | |
| Phosphorodithioic acid, O,Ó- di-C1-14-alkyl esters, zinc salts (Component) | : Result: Irritating to skin. | |
| 2,6-di-tert-butyl-p-cresol (Component) | : Species: Rabbit Result: No skin irritation | |
| Eye irritation (Product) | : Remarks: Irritating to eyes. | |
| Sensitisation Phosphorodithioic acid, O,O- di-C1-14-alkyl esters, zinc salts (Component) | : Maximisation Test (GPMT) Species: Guinea pig Classification: Did not cause sen | sitisation on laboratory animals |
| 2,6-di-tert-butyl-p-cresol (Component) | : Species: Guinea pig Classification: Did not cause sen | sitisation on laboratory animals |
| | | |
| CMR effects 1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated (Component) | : Carcinogenicity: Animal testing d Mutagenicity: Animal testing did n Teratogenicity: No effects on or v effects in animal experiments. Reproductive toxicity: No toxicity | not show any mutagenic effects via lactation, Did not show terate |
| 2,6-di-tert-butyl-p-cresol (Component) | : Mutagenicity: Animal testing did n Teratogenicity: No effects on or w Reproductive toxicity: No toxicity | via lactation |
| | : There is no data available for this | |



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| 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 fish (Chronic toxicit | у) |
| Phenol, isobutylenated, phosphate (3:1) (Component) | : NOEC: 0.093 mg/l Exposure time: 90 d |
| Toxicity to daphnia and other | aquatic invertebrates (Chronic toxicity) : NOEC: 0.0399 mg/l Exposure time: 21 d |
| Elimination information (per | sistence and degradability) |
| Bioaccumulation (Product) | : Remarks: No data available |
| Mobility (Product) | : Remarks: No data available |
| Biodegradability 2,6-di-tert-butyl-p-cresol (Component) | aerobic Result: According to the results of tests of biodegradability th product is not readily biodegradable. 4.5 % |
| Further information on ecol | ogy |
| Ecotoxicology Assessment | |
| Results of PBT assessment (F This substance is not conside Additional ecological information (Product) | Product) red to be persistent, bioaccumulating and toxic (PBT). : There is no data available for this product. |

Disposal methods

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| Waste from residues | : In accordance with local and nation | onal regulations. |
| Contaminated packaging | : Empty remaining contents. Dispose of as unused product. | |

SECTION 14. TRANSPORT INFORMATION

ADR Not dangerous goods

RID Not dangerous goods

MERCOSUR Not dangerous goods

DOT Not dangerous goods

ΙΑΤΑ

Not dangerous goods

IMDG

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

| | Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|---|--------------|---------|-----------------------|--------------------------------|
| ſ | formaldehyde | 50-00-0 | 100 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|--------------|---------|-----------------------|--------------------------------|
| formaldehyde | 50-00-0 | 100 | * |

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Acute Health Hazard



| peciality Lubricanits | | | | |
|--|---|--|--|--|
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| SARA 302 | : No chemicals in this material are s requirements of SARA Title III, Sec | | | |
| SARA 313 : The following components are subject to reporting level established by SARA Title III, Section 313: Phosphorodithioic acid, 68649-42-3 1.3485 O,O-di-C1-14-alkyl esters, zinc salts | | | | |
| US State Regulations | e Regulations | | | |
| California Prop 65WARNING! This product contains a chemical known to the State of California to cause cancer. formaldehydeformaldehyde50-00-0The components of this product are reported in the following inventories: | | | | |
| | | | | |
| US.TSCAOn TSCA InventoryDSLAll components of this product are on the Canadian DSLAICSOn the inventory, or in compliance with the inventoryNZIOCNot in compliance with the inventoryENCSOn the inventory, or in compliance with the inventoryKECINot in compliance with the inventoryPICCSNot in compliance with the inventoryIECSCNot in compliance with the inventory | | on the Canadian DSL. with the inventory ry with the inventory ry ry | | |

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.