

# Safety Data Sheet (SDS)

## ROYAL ENVIROGUARD CURVE RAIL GREASE



### SECTION 1: IDENTIFICATION OF THE SUBSTANCE /MIXTURE AND OF THE COMPANY /UNDERTAKING

#### 1.1 Product Identifier

**Material Name:** Royal Enviroguard Curve Rail Grease  
**Product Code:** 906 SB, 906 SC, 906 SD

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Product Use:** Industrial grease  
**Uses advised against:** This product must not be used in applications other than recommended in section 1 without taking the advice from supplier/manufacturer

#### 1.3 Details of supplier of safety data sheet

**Manufacturers/Supplier:** Royal Mfg Co LP  
P.O. Box 693, Tulsa, OK 74101- 0693  
**Telephone Number:** (918) 584 - 2671  
**Emergency Telephone Number:** (918) 584 - 2671  
**Email Address:** [Info@royalmfg.com](mailto:Info@royalmfg.com)

### SECTION 2: HAZARD IDENTIFICATION

#### 2.1 Classification of the substance of mixture

**OSHA Hazard Communication Standard :** This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200

#### 2.2 Label elements

OSHA HCS 2012 : OSHA HCS 2012 : No significant hazard as per GHS

#### 2.3 Other hazards

**Health hazards:** Not expected to be a health hazard when used under normal conditions. Prolonged or repeated skin contact without proper cleaning may clog the skin pores resulting disorders like acne/folliculitis. Used grease may contain harmful impurities/ harmful extraneous substances.

**Safety hazard:** Not classified as flammable but will burn

**Environmental hazard:** Not classified as environmental hazard under GHS criteria



## **Precautionary statements:**

**Prevention:** Wear protective gloves while handling. Wear eye and face protection. Wash hand thoroughly after handling

**Response:** If on skin, wash with plenty of soap and water. Remove contaminated cloth and wash thoroughly before use. If skin irritation occurs, get medical advice. If in eyes, wash with water for several minutes, in case of contact lenses, remove and wash with plenty water. In case of irritation, get medical attention.

**Storage:** Store the product in well-ventilated area. Keep the container straight lid upside. Do not lay down upside down or do not keep container horizontally. This product has natural tendency to squeeze oil if not kept properly.

**Disposal:** Take expert advice of local regulatory agency for disposing this product.

**Hazard not otherwise classified (HNOC):** None as classified under 29 CFR 1900.1200

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

This material is defined as mixture and has no known hazards under GHS classification

### **Additional information:**

As per 29 CFR 1910.1200 paragraph (i), formulation is considered as trade secret and therefore specific chemical names and their percentages of components used have not been disclosed. The details about their specific chemical names and their percentages may be provided on request to health professionals, authorized representatives of regulatory authority, employees concerned in accordance with applicable provisions of this paragraph.

## **SECTION 4: FIRST AID MEASURES**

### **4.1 Description of first aid measures**

**General information:** Not expected to be health hazard if used under normal conditions

**Inhalation:** Under normal conditions of intended use, this material is not expected to be inhalation hazard. If some symptom exist, remove to fresh air. If not breathing, give artificial respiration. Get medical attention

**Skin Contact:** Remove contaminated clothes. Flush exposed area with plenty of water followed by washing by soap, if available. If persistent irritation occurs, obtain medical attention. If product is injected into or under the skin due to any reason, the victim, regardless of size or appearance of wound, victim should be brought immediately to medical attention for emergency surgical needs. Though the initial symptoms due to high pressure injection may be minimal / absent, early surgical treatment may significantly reduce the extent of injury.

**Eye Contact:** Immediately flush with large quantities of cool water for at least 15 minutes. Get medical attention.

**Ingestion:** In general no treatment is necessary unless large quantities are swallowed, however, it's advisable to take medical attention. Do not induce vomiting unless directed by medical personnel. Do not give anything by mouth by an unconscious person.



**Self-protection for first aider:** When administering the first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

## **SECTION 5: FIRE FIGHTING MEASURES**

### **5.1 Extinguishing Media:**

**Suitable extinguishing media:** Water Spray (fog), dry chemical, foam, or carbon dioxide, sand to extinguish flames.

**Unsuitable extinguishing media:** Water stream may splash burning liquid and spread fire.

**5.2 Special hazard arising from the substances or mixture:** Hazardous combustion product may include a complex mixture of airborne solid and liquid particulates and gases (smoke), carbon monoxide, unidentified inorganic and organic compounds.

**5.3 Advice to firefighters:** Proper protective equipment include chemical resistant gloves to be worn, chemical resistant suit is recommended when large contact with spill product is expected. Self-contained breathing apparatus (SCBA) must be worn when approaching a fire in confined area. Select the fire fighters clothing approved by relevant standard

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch and walk through spill area. Do not touch damaged container or spilled material unless wearing appropriate protective clothing/equipment. Ventilate the closed area.

### **6.2 Emergency procedures**

Isolate the spill / leak area in all directions for about 50 meters (150 ft) for liquids and about 25 meters (75 ft.) for solids and semi-solids. Eliminate all ignition sources (no smoking, flares, sparks / flames in close vicinity). Keep unauthorized person away and ventilate closed space before entering.

### **6.3 Environmental procedures:**

This is biodegradable product and considered safe for use under normal conditions of application. Use appropriate measures for containment of spilled material to the environment. Prevent from entering/spreading to drain, water, river, ditches by using sand, earth, floor dryers or other appropriate barriers.

### **6.4 Methods and materials for containment and cleaning up**

Shovel into suitable properly marked container for disposal or reclamation in accordance with local regulations.

### **6.5 Reference to other sections**

Refer to section 8 – exposure control / personal protection and section 13- disposal considerations

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 General Precautions**



Store in well-ventilated area, if risk on vapor inhalation is there. Use the information in this data sheet as input for risk management arising due to local conditions which help to manage safe handling of this product.

## 7.2 Precautions for safe handling

Avoid prolonged and repeated contact with skin. Avoid inhaling the vapors/mist. When handling the drums, kegs, pails etc., proper safety shoes, and other protective clothes, safety glasses etc. should be worn. Dispose appropriately any contaminated rags/material as per prevailing local allowable practices. Keep containers in closely tight and, cool and well ventilated areas.

## 7.3 Conditions for safe storage, including any incompatibilities

Keep containers tightly close, well-ventilated areas but covered, avoiding contact with rain or other water ingress possibilities. Keep the storage place cool preferably <120 F / <50 C. Higher temperature may create pressure buildup inside container and chances of container busting or leakage may occur under aggravated conditions. Keep away from other oxidizing and incompatible materials.

## 7.4 Specific End Use (s):

This material should not be used for any other purpose than the intended use as per section 1 without the expert advice.

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

### 8.1 Control parameters

| Material                       | Source       | Type    | ppm | mg/m3     |
|--------------------------------|--------------|---------|-----|-----------|
| Lithium hydroxide mono hydrate | AIHA<br>WEEL | Ceiling |     | 1.8 mg/m3 |
| Lithium 12 Hydroxy Stearate    | ACGIH<br>TLV | -       |     | NE        |
| Bio-based Oil                  | OSHA Z-<br>1 | PEL     |     | 15 mg/m3  |

### NE : Not Established

### Additional information:

Due to semi-solid nature of the product, generation of mist and dusts is unlikely to occur

### Biological exposure index (BEI):

No biological limit allocated

### PNEC related information:

Data not available

### Monitoring methods:

Monitoring of the concentration of substances in the breathing zone of workers or in general workplace may be required to confirm the compliance with local governing authority.

### 8.2 Engineering measures/controls

Adequate ventilation systems may be needed to control concentrations of airborne contaminants above permissible threshold applicable limits.

### 8.3 Personal protective equipment pictograms





**Respiratory:** In case of insufficient ventilation, use suitable respiratory equipment

**Eye/Face:** Wear safety goggles

**Skin/Body:** Wear safety shoes and protective gloves

#### 8.4 Environmental Exposure controls

Minimize release to the environment. Follow best practices for site management and disposal of waste as per local regulations

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

#### Information on physical and chemical properties

| <b>Material description</b>     |  |
|---------------------------------|--|
| Appearance                      | Semi-solid   |
| Color                           | Black  |
| Odor                            | Slight hydrocarbon   |
| Odor threshold                  | Data not available   |
| <b>General properties</b>       |  |
| Boiling point                   | No data available  |
| pH                              | Not applicable   |
| Specific gravity (15 °C)        | 0.87, 7.506 (lbs/gal)  |
| Flash point, COC, °F/°C         | 400 / 204  |
| Upper/lower flammability limits | No data available  |
| Auto-ignition temperature       | No data available  |
| Flammability                    | No data available  |
| VOC, % wt., ASTM D-972          | 1  |
| Vapor pressure @ ambient temp.  | < 0.13 kPa (< 1 mm Hg)   |
| Vapor density (air =1)          | < 1  |
| Explosive properties            | Not classified   |
| Oxidizing properties            | No data available  |
| <b>Other Information</b>        |  |
| Electrical conductivity         | Though no data available, this material is not expected to be a static accumulator |

### **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1 Reactivity :

No reactivity is expected under normal conditions of intended use. However, under high temperature or adverse operating conditions thermal / chemical decomposition of the product may be possible



|  |   |
|--|---|
| <b>10.2 Chemical Stability :</b>               | No hazardous reaction is expected under normal conditions of temperature and pressure |
| <b>10.3 Possibility of hazardous reactions</b> | Hazardous polymerization is not expected. Reacts with strong oxidizing agents.        |
| <b>10.4 Conditions to avoid</b>                | Extreme temperature and direct sunlight / heat /flame                                 |
| <b>10.5 incompatible materials</b>             | Strong oxidizing agents   |
| <b>10.6 hazardous decomposition products</b>   | Hazardous decomposition is not expected to form under normal conditions of storage    |

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

|  |  |
|--|--|
| <b>Basis of assessment</b>             | Information given hereby is based on the components and the toxicology of similar products and the data indicated here are representative of the primarily base oil which is present in majority |
| <b>Acute oral toxicity</b>             | Not determined   |
| <b>Acute dermal toxicity</b>           | Not determined   |
| <b>Acute inhalation toxicity</b>       | Not determined   |
| <b>Skin corrosion / irritation</b>     | Expected to be slightly irritating . prolonged/repeated contact with skin without adequate cleaning may clog the pores of the skin , may result disorder such as oil acne/folliculitis           |
| <b>Serious eye damage /irritation</b>  | Expected to be slightly irritating   |
| <b>Respiratory /skin sensitization</b> | No evidence of sensitization effect  |
| <b>Aspiration hazard</b>               | Not expected to be aspiration hazard   |
| <b>Germ cell mutagenicity</b>          | Not expected a mutagenic hazard  |
| <b>Carcinogenicity</b>                 | No data available  |

### **11.2 Material**

### **Carcinogenicity Classification**

Highly refined base oil blend  
( IP 346 < 3 % )

Not listed as carcinogen by IARC, NTP OR OSHA

Based on our raw material suppliers information/SDS , this material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by OSHA Hazard Communication Standard 29CFR 1910.1200, IARC, or the National Toxicology Program (NTP).

## **SECTION 12: ECOLOGICAL INFORMATION**

|   |   |
|---|---|
| <b>Basis of assessment</b>                | Eco-toxicological data has not been determined specifically on this product. The information given herewith are based on the information given on eco-toxicity of components and/or on similar products. the information given here are representative of the product as whole and not as individual components |
| <b>12.1 Toxicity</b>                      | Sparingly soluble mixture in aqueous media. Not toxic to fish but may coat gill structure and cause suffocation if spilled. This product may cause gastrointestinal distress in birds and mammals through ingestion.  |
| <b>12.2 Persistence and degradability</b> | Expected to be not readily biodegradable. The major oil   |



component expected to biodegrade over period of 100-120 days in aerobic environment at temperature above 70 F (21 °C), however finished product contain component that may persist in the environment.

|                                       |   |
|---------------------------------------|---|
| <b>12.3 Bioaccumulative potential</b> | May contain component that bioaccumulate  |
| <b>12.4 Mobility in soil</b>          | Product is semi-solid in nature in most conditions and may absorb to soil and may not be mobile. It floats on water   |
| <b>12.5 other adverse effects</b>     | Product contain the components that have been classified non-volatile in nature and therefore not expected to release to environment in significant quantities. |

## **SECTION 13: DISPOSAL INFORMATION**

### **13.1 Waste treatment methods**

|                           |  |
|---------------------------|--|
| <b>Product disposal</b>   | Try to minimize the product waste by using best applicable practices. It is the responsibility of the waste generator to evaluate the waste classification and appropriate disposal methodology in accordance with the applicable regulation. Do not dispose in to environment, in drain or in river / ponds / water reservoirs. |
| <b>Container disposal</b> | To be disposed in accordance with local prevailing and allowable regulations.  |

## **SECTION 14: TRANSPORT INFORMATION**

|                     | <b>Bulk shipping</b>  | <b>Non-bulk shipping</b> | <b>Identification #</b> | <b>Hazardous class</b> |
|---------------------|---|--------------------------|-------------------------|------------------------|
| US DOT              | Not required  | Not required             | Not required            | Not required           |
| Canadian TDG        | Not required  | Not required             | Not required            | Not required           |
| European            | Not required  | Not required             | Not required            | Not required           |
| ADR, IMDG, IATA-DGR | Not classified as hazardous product for land, sea and air transport |                          |                         |                        |

## **SECTION 15: REGULATORY INFORMATION**

**OSHA Hazard Communication Standard:** This material is not considered hazardous in accordance with OSHA HAzCom 2012, 29 CFR 1910.1200.

**US Inventory list:** All components are listed or exempted (TSCA 8b)

**SARA (302/304):** No products were found

**SARA (311/312):**

**Classification:** Immediate (acute) health hazard, delayed (chronic) health hazard

| <b>Component</b> | <b>Fire hazard</b> | <b>Sudden release of pressure</b> | <b>Reactive</b> | <b>Acute health hazard</b> | <b>Delayed health hazard</b> |
|------------------|--------------------|-----------------------------------|-----------------|----------------------------|------------------------------|
| Base oil         | No                 | No                                | No              | No                         | Yes                          |





|                  |    |         |     |    |    |     |           |
|------------------|----|---------|-----|----|----|-----|-----------|
| Lithium Stearate | 12 | Hydroxy | Yes | No | No | Yes | Not known |
|------------------|----|---------|-----|----|----|-----|-----------|

**SARA (313) Toxic Release Inventory:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program

**California Proposition 65:** Titanium dioxide present in the product is known to the state of California to cause cancer

**Massachusetts:** None components are is listed

**New York:** None of the components are listed

**New Jersey:** lithium hydroxide is listed

**WHMIS:** This product is not a controlled product

**Canadian NPRI:** none of the components are listed

**CEPA toxic substance:** none of the components are listed

**Canadian inventory list:** all components are listed or exempted

**Australia Inventory ( AICS ) :** All components are listed or exempted

**China Inventory ( IECSC ) :** All components are listed or exempted

**Japan Inventory :** Not determined

**Korea Inventory :** All components are listed or exempted

**Malaysia Inventory ( EHS Register ) :** Not determined

**New Zealand inventory of Chemicals ( NZIoC ) :** All components are listed or exempted

**Philippines Inventory ( PICCS ) :** All components are listed or exempted

**Taiwan Inventory ( CSNN ) :** Not determined

## **SECTION 16: OTHER INFORMATION**

|            | NFPA 704 | NPCA-HMIS | KEY          |
|------------|----------|-----------|--------------|
| Health     | 1        | 1         | 0 = Minimal  |
| Fire       | 1        | 1         | 1 = slight   |
| Reactivity | 0        | 0         | 2 = Moderate |
| Specific   | None     | N/A       | 3 = Serious  |

This safety data sheet contains the following revisions:

**Revision Date:** May 8, 2015

**Supersedes:** None

**Prepared by:** Riverside Laboratories

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