



Revision Date: 25 February 2015

## SAFETY DATA SHEET

### Royalene® 636, 645, 677, 694, 697

#### 1. IDENTIFICATION

**Product Name** Royalene® 636, 645, 677, 694, 697

**Identified uses** Automotive applications

**Supplier** Lion Copolymer Geismar, LLC  
P.O. Box 397  
Geismar  
Louisiana 70734  
USA

Telephone +1 (800) 535-8990  
[customerservice@lionelastomers.com](mailto:customerservice@lionelastomers.com)

**Contact Person** Customer Service

**Manufacturer** Lion Copolymer Geismar, LLC  
36191 Highway 30  
Geismar  
Louisiana 70734  
USA

**Emergency Telephone** Chemtrec: +1 703-527-3887

#### 2. HAZARD(S) IDENTIFICATION

**Appearance** Solid bale or pellets

**Color** White/off-white

**Odor** Characteristic

**GHS Pictogram** No pictogram required

**GHS Classification**

Physical and Chemical Hazards	Not classified
Human Health	Not classified
Environment	Not classified

#### OSHA Regulatory Status

This product is not hazardous as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Distillates (Petroleum), Hydrotreated	CAS # 64742-54-7	13 to 50%
Ethylene-Propylene Ethylidene Norbornene Terpolymer	CAS # 25038-36-2	50 to 87%

SAFETY DATA SHEET  
Royalene® 636, 645, 677, 694, 697

---

**4. FIRST-AID MEASURES**

---

**Description of First Aid Measures**

**Inhalation**

Move into fresh air and keep at rest. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.

**Ingestion**

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

**Skin Contact**

Remove contaminated clothing immediately and wash skin with soap and water. Product in use may be molten. Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

**Eye Contact**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists, seek medical attention and bring these instructions.

**Most important symptoms and effects, both acute and delayed**

**General information**

Seek medical attention for all burns, regardless how minor they may seem.

**Inhalation**

No specific symptoms noted.

**Ingestion**

No specific symptoms noted.

**Eye Contact**

No specific symptoms noted.

**Indication of any immediate medical attention and special treatment needed**

**Notes to the Physician**

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation, or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

---

**5. FIRE-FIGHTING MEASURES**

---

**Auto Ignition Temperature (°C)**

Not available.

**Flammability Limit – Lower (%)**

Not available.

**Flash Point (°C)**

Not applicable.

**Extinguishing Media**

Fire can be extinguished using: Water

**Hazardous Combustion Products**

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

**Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

# SAFETY DATA SHEET

## Royalene® 636, 645, 677, 694, 697

### Specific Hazards

In case of fire, toxic gases may be formed.

### Special Fire Fighting Procedures

Avoid breathing fire vapors. NOTE! Use air-supplied respirators to protect against gases/fumes.

### Protective Equipment for Fire-Fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Wear protective clothing as described in Section 8 of this safety data sheet.

### Environmental Precautions

Avoid discharge to the aquatic environment.

### Spill Clean Up Methods

For waste disposal, see section 13.

### Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13. See section 11 for additional information on health hazards.

## 7. HANDLING AND STORAGE

### Handling

Avoid spilling, skin and eye contact.

### Storage

Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from: direct light sources, indirect light sources, sunlight (ultraviolet) fluorescent light.

### Storage Class

Unspecified storage

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Protective Equipment



### Engineering Measures

Provide sufficient ventilation during operations which cause vapor formation.

### Respiratory Equipment

In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2).

### Hand Protection

Use suitable protective gloves if risk of skin contact.

### Eye Protection

Wear approved safety goggles.

### Thermal Hazards

The molten product can cause serious burns.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Solid bale

### Color

White/off-white

## SAFETY DATA SHEET

Royalene® 636, 645, 677, 694, 697

<b>Odor</b>	Characteristic
<b>Solubility</b>	Insoluble in water; soluble in organic solvents.
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Melting point (°C)</b>	Not available
<b>Relative density</b>	0.87
<b>Bulk density</b>	870 kg/m <sup>3</sup>
<b>Vapor Density (air=1)</b>	Not available
<b>Vapor Pressure</b>	Not available
<b>Evaporation Rate</b>	Not applicable
<b>Evaporation Factor</b>	Not applicable
<b>pH-Value, Conc. Solution</b>	Not applicable
<b>pH-Value, Diluted Solution</b>	Not applicable
<b>Viscosity</b>	40 to 80 Mooney @ 125°C
<b>Decomposition Temperature (°C)</b>	Not available
<b>Odor Threshold, Lower</b>	Not available
<b>Odor Threshold, Upper</b>	Not available
<b>Flash Point</b>	Not available
<b>Auto Ignition Temperature (°C)</b>	Not available
<b>Flammability Limit – Lower (%)</b>	Not available
<b>Flammability Limit- Upper (%)</b>	Not available
<b>Partition Coefficient (N-Octanol/Water)</b>	Not available
<b>Solid/Liquid Ignition on Contact with Air</b>	No
<b>Oxidizing Properties</b>	Not determined

### 10. STABILITY AND REACTIVITY

#### Reactivity

No specific reactivity hazards associated with this product.

#### Stability

Stable under normal temperature conditions and recommended use.

#### Hazardous Polymerization

Will not polymerize

#### Conditions to Avoid

Avoid exposure to high temperatures or direct sunlight.

#### Materials to Avoid

No incompatible groups noted.

#### Hazardous Decomposition Products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

### 11. TOXICOLOGICAL INFORMATION

**SAFETY DATA SHEET**  
**Royalene® 636, 645, 677, 694, 697**

**Toxicological Information**

No information available.

---

**12. ECOLOGICAL INFORMATION**

---

**Ecotoxicity**

There are no data on the ecotoxicity of this product.

**Partition Coefficient**

Not applicable

---

**13. DISPOSAL CONSIDERATIONS**

---

**Waste Management**

This product is not considered to be hazardous waste under the definitions of the EPA and the Resource Conservation and Recovery Act (RCRA). However, any local or state regulation governing the process and disposal of waste should be followed.

**Disposal Methods**

No specific methods given.

---

**14. TRANSPORT INFORMATION**

---

**General** Not regulated

**Road Transport Notes** Not regulated

**Rail Transport Notes** Not regulated

**Sea Transport Notes** Not regulated

**Air Transport Notes** Not regulated

---

**15. REGULATORY INFORMATION**

---

**US Federal Regulations**

SARA Section 302

Extremely Hazardous Substances

\*\*\*NONE\*\*\*

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification to the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ) in 40CFR302.4

Components present in this product at a level which could require reporting under the statute are:

\*\*\*NONE\*\*\*

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (SARA 313). Components present in this product at a level which could require reporting under the statute are:

\*\*\*NONE\*\*\*

SARA 311/312 Hazard Categories

Acute Health Hazard \*\*\*NONE\*\*\*

Chronic Health Hazard \*\*\*NONE\*\*\*

Fire Hazard \*\*\*NONE\*\*\*

Sudden Release of Pressure Hazard \*\*\*NONE\*\*\*

Reactive Hazard \*\*\*NONE\*\*\*

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

# SAFETY DATA SHEET

## Royalene® 636, 645, 677, 694, 697

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPS) and Volatile Organic Compounds (VOCs) (see 40 CFR 61)  
 This product does not contain any substances regulated as hazardous air pollutants (HAPS) or volatile organic compounds (VOCs) under Section 112 of the Clean Air Act Amendments of 1990

Food and Drug Administration  
 This product is compliant with the following regulations for indirect food contact:  
     21CFR175.105 Adhesives  
     21CFR 177.2600 Rubber articles intended for repeated use

**US State Regulations**

<b>California Proposition 65</b>	Not listed
<b>New Jersey Right-to-Know</b>	Not listed
Massachusetts Right-to-Know	Not Listed
Pennsylvania Right-to-Know	Not Listed

**CONEG (HEAVY METALS)**

**Based on information provided by our suppliers, the raw materials used in the manufacture of this product contain no toxic heavy metals in concentrations greater than trace levels including lead, mercury, cadmium and hexavalent chromium which are not present in concentrations at or greater than 100 ppm as specified in the CONEG model legislation for Toxics in Packaging.**

**International Inventories**

**EU-EINECS/ELINCS**

None of the ingredients is listed

**Canada – DSL/NDSL**

All ingredients are listed or exempt

**US – TSCA**

All ingredients are listed or exempt

**Australia – AICS**

All ingredients are listed or exempt

**Japan – MITI**

All ingredients are listed or exempt

**Korea – KECI**

All ingredients are listed or exempt

**China \_IECSC**

All ingredients are listed or exempt

**Philippines – PICCS**

All ingredients are listed or exempt

---

**16. OTHER INFORMATION**

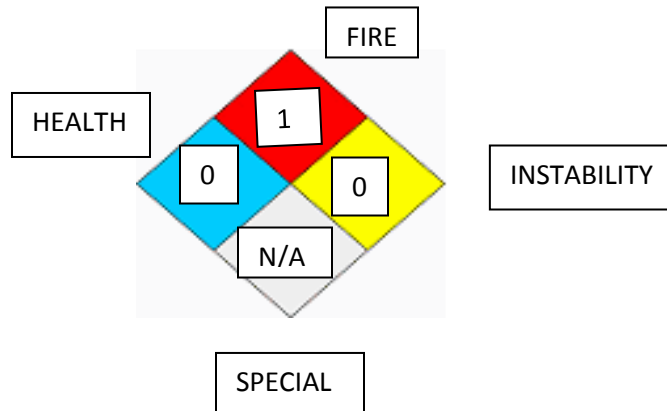
---

HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH	0
FLAMMABILITY	1
PHYSICAL	0
PERSONAL PROTECTION	X

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

SAFETY DATA SHEET  
Royalene® 636, 645, 677, 694, 697



The opinions expressed herein are those of qualified experts within Lion Copolymer Geismar, LLC. We believe that the information contained herein is current as of the date of this safety data sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of Lion Copolymer Geismar, LLC, it is the user's obligation to determine the conditions of safe use of these products.

Revision Date 25 February 2015

Copyright 2015 Lion Copolymer Geismar, LLC