

MATERIAL SAFETY DATA SHEET

ROYALENE® 694

Version: 1.5
Date of Issue: 06/23/2007
Date printed: 06/23/2007

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ROYALENE® 694

Chemical name: Ethylene-propylene ethylidene norbornene rubberith oil

Use of substance/preparation: Synthetic Rubber

Supplier: Lion Copolymer Geismar, LLC.
-
36191 Louisiana Highway 30
Geismar, LA 70734 USA

Emergency telephone number: CHEMTREC : 800-424-9300 (For USA, and Canada)
CHEMTREC: 703-527-3887 (For all other Countries) -
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Environmental, Health and Safety Department: US-225-673-8871 or 225-267-3608

Prepared by Supply Chain Date of Issue: 06/23/2007
(US) +1 800-535-9960
(Outside of the US) 1 + 225-267-3788
Email: CustomerService@Lioncopolymer.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!

MOLTEN PRODUCT MAY CAUSE THERMAL BURNS.

FUMES OR VAPOR FROM HEATED MATERIAL MAY BE TOXIC AND/OR IRRITATING TO EYES, SKIN, MUCOUS MEMBRANE AND RESPIRATORY TRACT.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENT | % BY WEIGHT |
|---|-------------|
| Distillates (petroleum), hydrotreated heavy paraffinic CAS# 64742-54-7 | 35 - 45 |

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4. FIRST AID MEASURES

Swallowing

Drink promptly a large quantity of milk, egg white or gelatin solution. If not available, drink a large quantity of water. Give water to drink. Do not induce vomiting. Rinse mouth with water. Obtain medical attention.

Inhalation

Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, administer oxygen. Obtain medical attention immediately.

Skin contact

Wash skin with soap and water. If burned by contact with hot molten material, cool burned skin as quickly as possible by immersing in cold water, or applying cold water. Call a physician.

Eye contact

Immediately flush eyes with water and continue washing for at least 15 minutes. The eyelids should be held open and away from the eyeball to ensure that all surfaces are flushed thoroughly. If burned by contact with hot molten material, flush eyes immediately with water and continue washing for several minutes. In case of eye irritation seek medical attention.

5. FIRE-FIGHTING MEASURES

Flammable limits

Lower limit: Not available

Upper limit:

Autoignition temperature:

Not available

Hazardous combustion products

None known.

Special protective equipment for firefighters

Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

Extinguishing media

Suitable: Water.

Unusual fire and explosion hazards

Noxious fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment, especially eye protection.

Environmental precautions

Avoid runoff to sewers or waterways.

Methods for cleaning up

Sweep up and collect in a suitable container for disposal.

7. HANDLING AND STORAGE

HANDLING

Handling precautions

Avoid contact with skin and clothing.

STORAGE

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Storage requirements

Store in a cool, dry place., Store away from:, - direct light sources, - indirect light sources, - sunlight (ultraviolet), - fluorescent light, Oil-extended grades must be covered with opaque polyethylene wrapping when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

PERSONAL PROTECTION

Respiratory protection

NIOSH approved breathing air equipment or NIOSH approved face mask with organic vapor cartridge and dust or mist pre-filter (not for use in fire fighting or in atmospheres with reduced oxygen content).

Hand protection / protective gloves

Chemical resistant protective gloves, Heat protective impervious gloves when handling molten product.

Eye protection

Safety goggles.

Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact., Coveralls when handling molten product.

ENGINEERING CONTROLS

Ventilation

Special, local ventilation is recommended at points where vapors generated at high temperatures may be vented to the workplace air.

Further information

Provide for sufficient ventilation and/or exhaust.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

| | |
|-----------------------|--------------------|
| Physical state | Amorphous solid |
| Odor | Characteristic |
| Odor threshold | No data available. |

OTHER PROPERTIES

| | |
|--|------------------------|
| Boiling point | Not available |
| Melting point | Not available |
| Solidification | Not available |
| pH | Not available |
| Specific gravity (H₂O=1) | < 1 |
| Density | 0.87 g/cm ³ |
| Solubility in water | Insoluble |
| Solubility in organic solvents | Soluble |
| Partitioning coefficient | No data available. |
| Flash point | No data available. |
| Autoignition temperature | Not available |

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Lower explosion limits Not available
Percent volatiles No data available.
Dynamic viscosity 40 mPa.s at 125 °C
Method: MOONEY

10. STABILITY AND REACTIVITY

Stability: Stable at ambient temperatures.

Incompatible materials:

If stored and handled as instructed: none

Hazardous combustion products:

None known.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

GENERAL

There is no acute toxicology information on this product. High molecular weight polymers have not been shown to present a significant acute health risk.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

General: Avoid discharge to sewers and natural waters., Dispose of in accordance with appropriate Federal, State, and local regulations.

14. TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT.

IMDG Classification

This product is not regulated by IMDG.

ICAO Classification

This product is not regulated by ICAO.

15. REGULATORY INFORMATION

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New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

| Chemical name | CAS# | New Jersey TS Number |
|--|------------|----------------------|
| Bicyclo[2.2.1]hept-2-ene, 5-ethylidene-, polymer with ethene and 1-propene | 25038-36-2 | |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | |
| Epoxidized soybean oil | 8013-07-8 | |
| Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | 2082-79-3 | |

CHEMICAL INVENTORY

Canada: This product is on the DSL.
Europe: This product is on the EINECS inventory.
United States: This product is on the TSCA inventory.
Australia: This product is on the AICS inventory.
China: This product is listed with the State Environmental Protection Administration (SEPA).
Japan: This product is on the ENCS inventory.
Korea: This product is listed on the Existing Chemicals List (ECL).
Philippines: This product is on the PICCS.

Food contact
For FDA status please contact the Supply Chain Department of the Lion Copolymer Geismar, LLC.

16. OTHER INFORMATION

HMIS RATING

| | | | |
|------------------|------------------------|----------------------|---------------|
| Health: 0 | Flammability: 1 | Reactivity: 0 | PPI: X |
|------------------|------------------------|----------------------|---------------|

| | |
|----------|---|
| STP | Standard temperature and pressure |
| W/W | Weight/Weight |
| 0 (HMIS) | 0 (HMIS) |
| 1 (HMIS) | Slight hazard |
| 2 (HMIS) | Moderate hazard |
| 3 (HMIS) | Serious hazard |
| 4 (HMIS) | Severe hazard |
| X (HMIS) | Personal protection rating to be supplied by user depending on use conditions |

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