

MATERIAL SAFETY DATA SHEET

ROYALENE® 645

Version: 1.3
Date of Issue: 06/23/2007
Date printed: 06/23/2007

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ROYALENE® 645

Chemical name: Ethylene-propylene ethylidene norbornene rubber, oil extended

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) -
--

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	42.57

MATERIAL SAFETY DATA SHEET

ROYALENE® 645

Version: 1.3

Date of Issue: 06/23/2007

Date printed: 06/23/2007

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

(M)SDS# 000000011012

Page: 2 of 6

MATERIAL SAFETY DATA SHEET

ROYALENE® 645

Version: 1.3
Date of Issue: 06/23/2007
Date printed: 06/23/2007

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/cm3
Solubility in water	Insoluble
Solubility in organic solvents	Soluble
Partitioning coefficient	No data available.
Flash point	No data available.
Autoignition temperature	Not available

MATERIAL SAFETY DATA SHEET

ROYALENE® 645

Version: 1.3
Date of Issue: 06/23/2007
Date printed: 06/23/2007

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

MATERIAL SAFETY DATA SHEET

ROYALENE® 645

Version: 1.3
Date of Issue: 06/23/2007
Date printed: 06/23/2007

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RO's) 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 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

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

**** NONE ****

Massachusetts Right-To-Know Substance List (MSL)--Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

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

**** NONE ****

Pennsylvania Right-To-Know Hazardous Substance List--Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

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

Chemical name	CAS#	Max weight %
**** NONE ****		

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 parafinic	64742-54-7	
Epoxidized soybean oil	8013-07-8	
Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	2082-79-3	
Polypropylene glycol	25322-69-4	

EPA Hazard Categories (SARA 311, 312): None

California Proposition 65

**** NONE ****

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 on the IECSC Inventory.
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.

16. OTHER INFORMATION

MATERIAL SAFETY DATA SHEET

ROYALENE® 645

Version: 1.3
Date of Issue: 06/23/2007
Date printed: 06/23/2007

HMIS RATING

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

STP	Standard temperature and pressure
W/W	Weight/Weight 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

**Copyright
2007**

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 THE PRODUCTS.