

MATERIAL SAFETY DATA SHEET

ROYALENE® 360

Version: 1.4
Date of Issue: 01/29/2009
Date printed: 03/05/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ROYALENE® 360

Chemical name: Ethylene-propylene dicyclopentadiene rubber

Use of substance/preparation: No specific information

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

Emergency telephone number: 225-673- 8871

Environmental, Health and Safety Department: 225-267-3608

Prepared by Supply Chain Date of Issue: 06/28/2007
(US) +1 800-535-9960
Email: CustomerService@lioncopolymer.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!

MAY CAUSE EYE IRRITATION DUE TO NUISANCE DUST.

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

This product does not contain reportable hazardous ingredients as defined by the OSHA Hazard Communication Standard 29 CFR 1910.120

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. Obtain medical attention if gastrointestinal irritation develops.

Inhalation

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

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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:

NFPA CLASSIFICATION

Health: 2	Flammability: 1	Reactivity: 0	Special provisions:
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Hazardous combustion products

Thermal decomposition may produce:

Irritating fumes.

Toxic gases/vapours

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.

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

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.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

PERSONAL PROTECTION

Respiratory protection

The determination of appropriate respiratory protection is best performed, on a case by case basis, taking into consideration the exposure conditions of the particular operation.

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

OTHER PROPERTIES

Melting point Not available

Density 0.86 g/cm³

Vapor pressure

Solubility in water Insoluble

Solubility in organic solvents Soluble

Flash point Not available

Lower explosion limits Not available

Dynamic viscosity 73 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

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Hazardous combustion products:

Thermal decomposition may produce:
Irritating fumes.
Toxic gases/vapours

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

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 (RQ'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 ****

Chemical name	CAS#	Max weight %
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New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
4,7-Methano-1H-indene-tetrahydro-, polymer with ethene and 1-propene	25034-71-3	
Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	2082-79-3	
Polypropylene glycol	25322-69-4	

California Proposition 65
*** NONE ***

CHEMICAL INVENTORY

Canada: This product is on the DSL.
Europe: The monomers of this polymer are listed 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.

Food contact
Not applicable

16. OTHER INFORMATION

HMIS RATING

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

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