# SAFETY DATA SHEET

## Trilene® 67, 77

### 1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Trilene® 67, 77</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identified uses</td>
<td>Reactive plasticizer</td>
</tr>
<tr>
<td>Supplier</td>
<td>Lion Copolymer Geismar, LLC</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 397</td>
</tr>
<tr>
<td></td>
<td>Geismar</td>
</tr>
<tr>
<td></td>
<td>Louisiana 70734</td>
</tr>
<tr>
<td></td>
<td>USA</td>
</tr>
<tr>
<td>Telephone</td>
<td>+1 (800) 535-9960</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:customerservice@lionelastomers.com">customerservice@lionelastomers.com</a></td>
</tr>
<tr>
<td>Contact Person</td>
<td>Customer Service</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Lion Copolymer Geismar, LLC</td>
</tr>
<tr>
<td></td>
<td>36191 Highway 30</td>
</tr>
<tr>
<td></td>
<td>Geismar</td>
</tr>
<tr>
<td></td>
<td>Louisiana 70734</td>
</tr>
<tr>
<td></td>
<td>USA</td>
</tr>
<tr>
<td>Emergency Telephone</td>
<td>Chemtrec: +1 703-527-3887</td>
</tr>
</tbody>
</table>

### 2. HAZARD(S) IDENTIFICATION

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Amorphous solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>White/off-white</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>GHS Pictogram</td>
<td>No pictogram required</td>
</tr>
<tr>
<td>GHS Classification</td>
<td>Physical and Chemical Hazards: Not classified</td>
</tr>
<tr>
<td></td>
<td>Human Health: Not classified</td>
</tr>
<tr>
<td></td>
<td>Environment: Not classified</td>
</tr>
</tbody>
</table>

**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

| Ethylene-propylene Ethyldiene Norbornene Terpolymer | CAS # 25038-36-2 | >98% |
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 give, 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, CO₂, NOₓ) may be formed.

**Unusual Fire & Explosion Hazards**
No unusual fire or explosion hazards noted.

**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) or 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
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Amorphous solid</td>
</tr>
<tr>
<td>Color</td>
<td>White/off-white</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water; soluble in organic solvents.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.86</td>
</tr>
<tr>
<td>Bulk density</td>
<td>860 kg/m³</td>
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<tr>
<td>Vapor Density (air=1)</td>
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</tr>
<tr>
<td>Vapor Pressure</td>
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</tr>
<tr>
<td>Evaporation Rate</td>
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</tr>
<tr>
<td>Evaporation Factor</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH-Value, Conc. Solution</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH-Value, Diluted Solution</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>100,000 to 120,000 cP @ 100°C Brookfield</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
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</tr>
<tr>
<td>Odor Threshold, Lower</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold, Upper</td>
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<tr>
<td>Flash Point</td>
<td>Not available</td>
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<tr>
<td>Auto Ignition Temperature (°C)</td>
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<tr>
<td>Flammability Limit – Lower (%)</td>
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</tr>
<tr>
<td>Flammability Limit- Upper (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition Coefficient (N-Octanol/Water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Solid/Liquid Ignition on Contact with Air</td>
<td>No</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
</tr>
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</table>

**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

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, ant 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***
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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)

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

California Proposition 65  Not listed
New Jersey Right-to-Know  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)

<table>
<thead>
<tr>
<th></th>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL</th>
<th>PERSONAL PROTECTION</th>
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<tr>
<td>HEALTH</td>
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<tr>
<td>PERSONAL PROTECTION</td>
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</table>

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

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 4 March 2015

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