

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

SOUTHLAND POLYMERS, INC.  
14030 GANNET STREET  
SANTA FE SPRINGS, CA. 90670

### PHONE NUMBERS:

Emergency: Call 911  
Non-emergency information: 562-921-0444

**PRODUCT IDENTIFIER:** Resinext Polycarbonate Resin (General Purpose, Non-FR)  
**PRODUCT DESCRIPTION:** Poly (bisphenol-A-carbonate)  
CAS Number: 111211-39-3  
Synthetic thermoplastic polymer resin.

**PRODUCT USE:** May be used to produce injection molded or extruded articles or as a component of other industrial products.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER	OSHA	UNITS	ACGIH	UNITS
<b>CHEMICAL NAME</b>				

This product does not contain any reportable hazardous materials.

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

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Solid pellets with slight or no odor. Spilled pellets create slipping hazard. Can burn in a fire creating dense toxic smoke. Molten plastic can cause severe thermal burns. Fumes produced during melt processing may cause eye, skin and respiratory tract irritation. Secondary operations, such as grinding, sanding or sawing, can produce dust which may present an explosion or respiratory hazard.

#### **POTENTIAL HEALTH EFFECTS**

<b>EYE:</b> mechanical action.	Product may cause irritation or injury due to
<b>SKIN:</b> industrial use.	Pellets not likely to cause skin irritation during normal
<b>INGESTION:</b>	Not acutely toxic in normal industrial use.
<b>INHALATION:</b>	Pellet inhalation unlikely due to physical form.
<b>CHRONIC/CARCINOGENICITY</b>	
<b>NTP:</b>	Not tested
<b>OSHA:</b>	Not regulated
<b>IARC:</b>	Not listed

#### **MELT PROCESSING HEALTH EFFECTS:**

Molten plastic can cause severe burns.

Processing fumes may cause irritation to the eyes, skin and respiratory tract, and in cases of severe over-exposure, nausea and headache.

Grease-like processing fume condensates on ventilation duct work, molds and other surfaces can cause irritation and injury to skin.

#### **MEDICAL RESTRICTIONS:**

There are no known human health effects aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing fumes.

#### **NOTE:**

Colorant additives added to this product containing certain heavy metal compounds or carbon black may be present. These ingredients are essentially bound in the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

## **4. FIRST AID MEASURES**

#### **EYES:**

Remove contact lenses at once. Immediately flush eyes well with copious quantities of water or normal saline for at least 20-30 minutes. If irritation persists, seek medical attention.

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**SKIN:** Wash skin thoroughly with soap and water. Seek medical attention immediately if rash or burn occurs.  
**INGESTION:** If a large amount is swallowed, seek medical attention immediately.  
**INHALATION:** Not likely to be inhaled due to physical form.  
**MELT PROCESSING:** For molten plastic skin contact, cool rapidly with water and immediately seek medical attention. Do not attempt removal of plastic without medical assistance. Do not use solvent for removal.

For processing fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop seek medical attention at once, even if symptoms develop at a later time. For skin contact with fume condensate, immediately wash thoroughly with soap and water. If irritation develops seek medical attention.

## 5. FIRE FIGHTING MEASURES

**FIRE FIGHTING:** Approved pressure demand breathing apparatus and protective clothing should be used for all fires. Water spray is the preferred extinguishing medium. This product will melt but will not be carried on the surface of water.

**EXTINGUISHING MEDIA:** Water spray and foam. Water is the best extinguishing medium. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition.

**HAZARDOUS COMBUSTION PRODUCTS:** Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, hydrogen cyanide, hydrocarbon fragments and carbon dioxide.

<b>FLASH POINT:</b>	Not applicable
<b>LOWER FLAMMABLE LIMIT:</b>	Not established
<b>UPPER FLAMMABLE LIMIT:</b>	Not established
<b>AUTOIGNITION:</b>	508C (946F), estimated
<b>CONDITIONS OF FLAMMABILITY:</b>	Requires a continuous flame source to ignite.
<b>EXPLOSION DATA</b>	
<b>IMPACT SENSITIVITY:</b>	Not sensitive to mechanical impact.
<b>STATIC DISCHARGE:</b>	Not sensitive to static discharge (See HANDLING AND STORAGE)

## 6. ACCIDENTAL RELEASE MEASURES

**GENERAL:** Sweep or gather up material and place in proper container for disposal or recovery. (See DISPOSAL INFORMATION)

## 7. HANDLING AND STORAGE

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**HANDLING:** Follow recommendations on label and in processing guide. Prevent contact with skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation. Secondary operations such as grinding, sanding or sawing may produce a dust explosion hazard. Use aggressive housekeeping activities to prevent dust accumulation; employ bonding, grounding, venting and explosion relief provisions in accordance with accepted engineering practices.

**STORAGE:** Store in a dry place away from moisture, excessive heat and sources of ignition.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, duct work, and other surfaces using appropriate personal protection. For powders and residual dusts refer to HANDLING AND STORAGE section.

Ventilation requirements must be locally determined to limit exposure to processing fumes in the workplace. Design techniques and guidelines may be found in publications such as: Industrial Ventilation; available from the American Conference of Governmental Industrial Hygienists, Committee on Industrial Ventilation, P.O. Box 16153, Lansing, MI 48901.

### PERSONAL PROTECTION

**EYE/FACE:** Wear safety glasses with side shields or chemical goggles. In addition, use full face shield when cleaning processing fume condensates from hoods, ducts and other surfaces.

**SKIN:** When handling pellets avoid prolonged or repeated contact with skin. When melt processing product wear long pants, long sleeves, well insulated gloves and face shield when applicable.

Use appropriate protective clothing, including chemical resistant gloves, to prevent any contact with processing fume condensates.

**RESPIRATORY:** When processing fumes are not adequately controlled, use respirator approved for protection from organic vapors and acid gases. When dust or powder from secondary operations, such as grinding, sanding or sawing, are not adequately controlled, use respirator approved for protection from dust.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE:</b>	Solid
<b>ODOR AND APPEARANCE:</b>	Plastic pellet with slight odor
<b>BOILING POINT:</b>	Not Applicable
<b>MELTING POINT:</b>	See COMMENT below
<b>VAPOR PRESSURE (mmHg):</b>	Negligible
<b>VAPOR DENSITY (air=1):</b>	Not Applicable

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<b>SPECIFIC GRAVITY (water=1):</b>	>1
<b>WATER SOLUBILITY:</b>	Insoluble
<b>% VOLATILE:</b>	Negligible
<b>pH:</b>	Not Applicable
<b>ODOR THRESHOLD:</b>	Not Established
<b>EVAPORATION RATE:</b>	Negligible
<b>COEFFICIENT WATER/OIL DISTR:</b>	Not Established
<b>COMMENT:</b>	This product does not exhibit a sharp melting point, but softens gradually over a relatively wide temperature range.

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under recommended conditions of storage and handling.

**REACTIVITY:** Not reactive under recommended conditions of handling, storage, processing and use.

**CONDITIONS TO AVOID:** Do not exceed melt temperature recommendations in product literature. In order to avoid autoignition/hazardous decomposition of hot thick masses of plastic, purgings should be collected in small, flat shapes or thin strands to allow for rapid cooling and quench in water. Do not allow product to remain in barrel at elevated temperatures for extended periods of time; purge with a general purpose resin. (See EXPOSURE CONTROLS/PERSONAL PROTECTION section for respiratory protection advice.)

**HAZARDOUS DECOMPOSITION:** Processing fumes evolved at recommended processing conditions may include trace levels of: phenols, alkylphenols, diarylcarbonate, tetrahydrofuran (THF)



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## 11. TOXICOLOGICAL INFORMATION

### ACUTE HEALTH HAZARDS:

**ACUTE ORAL:** Oral LD50 Rat  $\geq$ 500 mg/kg. Oral toxicity is estimated from tests on similar materials.

**EYE CONTACT:** Product not considered primary eye irritant, contact between the product and eyes may cause mechanical irritation and/or damage.

**SKIN CONTACT:** Product not considered primary skin irritant. Draize Skin Primary Irritation Score for similar products, in finely divided form, for 24 hour exposure is 0.

## 12. ECOLOGICAL INFORMATION

**GENERAL:** Not expected to present any significant ecological problems.

## 13. DISPOSAL INFORMATION

**WASTE DISPOSAL:** Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing fume condensates should be tested to determine waste classification.

## 14. TRANSPORTATION INFORMATION

**DOT HAZARD CLASS:** Not Regulated

## 15. REGULATORY INFORMATION

**TSCA STATUS:** This product complies with the Chemical Substance Inventory requirements of the US EPA Toxic Substances Control Act (TSCA).

**WHMIS CLASSIFICATION:** Not a controlled product.

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**Note:** The information contained in this Material Safety Data Sheet (MSDS) is based on information believed to be accurate at the time of publication, but may be subject to change and/or revision as new information becomes available or as the product changes are made. Because it is not possible to anticipate all conditions and situations this product may be exposed to, additional safety precautions may be necessary above and beyond the guidelines contained within this MSDS> Each user is responsible for making its own determination as to the safe and proper handling and usage of this material in its own particular use of this material. Southland Polymers offers no warranty, either express or implied, on the merchantability or fitness of this product for any particular purpose(s).

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