

# Material Safety Data Sheet

## K-100 Natural Rubber

### Section 1 Name

- **Product:** K-100 Natural Rubber

### Section 2 Hazardous Ingredients / Identity Information

No.	Composition	CAS Number	TLV Limits
	Natural Polyisoprene Rubber	9006-04-6	Non-Hazardous

Based upon data available to Kent Elastomer Products, the components in this product are not hazardous under OSHA hazard communication (29 CFR 1910.1200).

### Section 3 Hazards Identification

These elastomers comply with the FDA's food grade requirements (Title 21 Code of Federal Regulations 177.2600). Handle material in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure to eyes and skin.

Caution: Processing with elevated temperatures releases vapors or fumes which may cause respiratory tract irritation.

- **Appearance** – Natural amber color
- **Odor** – Slight rubberlike smell. Avoid breathing processing fumes or vapors. Process using adequate ventilation.
- **Potential Health Effects**
  - **Inhalation** – Inhalation of fumes or vapors during grinding or burning may cause respiratory tract irritation.
  - **Eye Contact** – Material does not cause significant eye irritation.
  - **Skin Contact** – Material does not cause significant skin irritation. NIOSH Alert No. 97-135, June 1997. Workers exposed to latex products may develop allergic reactions. Persons allergic to fruits often will also be sensitive to natural rubber.

### Section 4 First Aid Measures

- **Inhalation:** If fumes caused by excessive are inhaled, remove to fresh air. If breathing is difficult, get medical attention.

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## Section 5 Fire Fighting Measures

- **Flash (piloted) Ignition Temperature:**
- **Self-Ignition (non-piloted) Temperature:** >700°F Method: ASTM D-1929-77
- **Extinguishing Media:** Water spray or Class A extinguisher agent.
- **Special Firefighting Procedures:** Firefighters and other exposed to products of combustion should wear self-contained breathing apparatus and full protective clothing. Carbon monoxide and sulfur oxides are liberated as a toxic decomposition product when ignited.

## Section 6 Supplemental Health Information – Release to the Environment

- Sept. 1998: FDA label law requires labeling of medical devices with natural rubber latex in them. The warning reads "This device contains natural rubber latex which may cause allergic reactions."

## Section 7 Handling and Storage

- Natural rubber products can be damaged by ozone, heat & light. Care should be taken to store these products bagged, in boxes and at temperatures below 90°F (32°C).
- Handling may cause allergic reactions. Refer to section 6.

## Section 8 Exposure Controls / Personal Protection

These are food grade and medical grade elastomers (see Section 3).

- **Eye Protection:** Material does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.
- **Skin Protection:** Although this material does not present significant skin concern to people not allergic to latex, minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.
- **Respiratory Protection:** Avoid breathing processing vapors or dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure is excessive. Respiratory protection programs must comply with 29 CFR 1910.134.
- **Ventilation:** Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination as open process equipment.
- **Exposure Limits:** There are no known hazardous components above regulatory threshold limits.

## Section 9 Physical and Chemical Properties

- **Specific Gravity:** 0.923

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## Section 10 Stability and Reactivity

- **Stability:** Thermally stable to 500°F
- **Materials to Avoid:** This material may react with strong oxidizing chemicals.
- **Hazardous Decomposition Products:** Smoke, carbon monoxide, sulfur oxides, and possibly hydrocarbons may evolve when processing temperatures exceed 600°F or when this material is ignited.
- **Hazardous Polymerization:** Does not occur.

## Section 11 Environmental Protection

The following information summarizes human experience and results of scientific investigations reviewed by health professionals for hazard evaluation of this material and development of Precautionary Measures and Occupational Control Procedures recommended in this document. These polymers pass medical and food grade standards. If an individual has latex allergies these comments do not apply.

- **Effects of Exposure:** Skin contact is expected to be the primary route of occupational exposure to this material. Occupational exposure to this material in normal handling and storage has not been reported to cause significant adverse human health effects. Due to its chemical and physical properties, this NRL does not appear to possess any toxicological properties which would require special handling other than the good industrial hygiene and safety practices employed with any industrial material of this type.
- **Toxicological Data:** Results of single exposure (acute) animal studies conducted on our natural latex rubber indicate that this material is practically nontoxic orally (rats) and after skin application (rabbits). They are practically nonirritating to rabbit eyes and skin.

## Section 12 Ecological Information

- **Persistence and Degradability:** Natural rubber latex is considered to be biodegradable.
- **Environmental Toxicity:** Chemicals are not readily available as they are bound within polymer matrix.

## Section 13 Disposal Considerations

When discarded, natural rubber latex is not a "hazardous waste" as that term is defined in 40 CFR 261, "Identification and Listing of Hazardous Waste." Dispose of in accordance with applicable local, state, and federal laws and regulations.

- **Spill or Leakage Procedure:** Sweep or scoop up and place in container for recycle or disposal.

## Section 14 Transportation Information

- **DOT Proper Shipping Name:** Not regulated for transportation.
- **DOT Hazard Class / ID Number:** NA
- **DOT Label:** NA

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## Section 15 Regulatory Information

- K-100 does not include any hazardous materials listed in the Canadian Chemical Plan.
- **OSHA Status:** There are no known hazardous components.
- **TSCA Status:** All components of this natural rubber latex are listed as exempt.
- **California Proposition 65:** Not listed.
- **Reach RoHS:** Meets regulation
- **Contains no BPA** as listed on the (CEPA) Canadian EPA

## Section 16 Other Information

- Free from animal derivatives
- Phthalate free
- Meets FDA Title 21 Section 177.26 for repeated use with food.
- Meets medical testing requirements. This product is used extensively in the medical industry.

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The information contained herein is based on the data available to us and is believed to be correct; however, Kent Elastomer Products makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Kent Elastomer Products assumes no responsibility for injury from the use of the product described herein.

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