



# Material Safety Data Sheet

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**SECTION 1 MATERIAL/COMPANY IDENTIFICATION**

**PRODUCT NAME:** KRATON Polymer Research and Development:  
 (Note: This MSDS covers all alphanumeric suffixes for the following products. Suffixes designate location of manufacture, lube type, product form and/or new commercial grade):  
**RP6652**

**CHEMICAL NAME:** Styrene-Ethylene/Butylene-Styrene Block Copolymer  
**PRODUCT FAMILY:** Thermoplastic Elastomer - Oil Extended

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**SECTION 2 COMPOSITION**

COMPONENTS	CAS #	CONCENTRATION
1. Styrene-Ethylene/Butylene-Styrene Block Copolymer	66070-58-4	< 25% weight
2. Mineral Oil	8042-47-5	< 55% weight
3. Filler	1317-65-3	< 30% weight
4. Plastic	9003-07-0	< 10% weight
5. Carbon Black (for Grade 9001)	1333-86-4	2% weight
6. Antioxidant/Stabilizer/Dusting Agent		< 1% weight

**NOTE: This is a Research and Development Product.**

**SECTION 3 HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**Appearance & Odor:** Solid. Essentially odorless.  
**Health Hazards:** Polymer product with no unusual emergency concerns.  
**Physical Hazards:** The material will burn and should not present an unusual hazard during fires. Avoid smoke from fires.

**Health Effects**

**Special Notes:**  
 These materials are rubber compounds which are essentially non-toxic. Material is not irritating. If polymer dusts are generated they could scratch the eyes and cause minor irritation to the respiratory tract.

**SECTION 4**

**FIRST AID MEASURES**

**Eye:**

Flush eyes with water while holding eyelids open.

**Skin:**

If contact with hot material, cool the burn area by flushing with large amounts of water. DO NOT attempt to remove anything from the burn area or apply burn creams or ointments. Cover the burn area loosely with a sterile dressing, if available.

**SECTION 5**

**FIRE FIGHTING MEASURES**

**Extinguishing Media:**

Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Fire Fighting Instructions:**

Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus.

**SECTION 6**

**ACCIDENTAL RELEASE MEASURES**

**Protective Measures:**

Wear appropriate personal protective equipment (refer to Section 8) when responding to spills.

**Spill Management:**

Shovel and sweep up or use industrial vacuum cleaner. Avoid generating dust clouds. Place in container for proper disposal. Proper disposal should be evaluated based on regulatory status of this material (refer to Section 13), potential contamination from subsequent use and spillage, and regulations governing disposal in the local area. Prevent entry into waterways, sewer, basements or confined areas.

**SECTION 7**

**HANDLING AND STORAGE**

**Handling:**

Avoid generation or accumulation of dusts. Take precautionary measures against static discharges, earth/ground all equipment. Avoid contact with heated or molten product. Do not breathe dust. Do not breathe fumes or vapors from heated product. Use local exhaust extraction over processing area.

When processing KRATON Polymers products, maintain a fire watch if the material reaches 225 deg. C (437 deg. F) for KRATON IR and KRATON D (polymers and compounds), and 280 deg. C (536 deg. F) for KRATON G (polymers and compounds).

The temperatures listed above are indicated only for safety reasons (risk of fire and product degradation) and are not necessarily recommended for processing.

Degradation of the polymer (polymer breakdown) will start at lower temperatures depending on the specific processing conditions. Therefore, operating below these temperatures does not guarantee the absence of product degradation.

For more information about processing precautions, consult the KRATON Polymers technical literature available from your sales representative.

Static charge buildup can be a potential fire hazard when used in the presence of volatile or flammable vapors or in high airborne dust concentration. For more information, consult the KRATON Polymers Static Electricity Safety Bulletin available from your sales representative.

## KRATON Polymers Research and Development SEBS OE Product

### Storage:

Keep container dry. Keep in a cool, well-ventilated place. Keep away from direct sunlight and other sources of heat or ignition. Avoid storage of bulk product at temperatures above ambient to minimize risk of exothermic degradation, self-heating and possible self-ignition (Refer to Section 10). Avoid storage under pressure or at elevated temperatures to minimize particulate clustering. Do not stack intermediate bulk containers.

### Storage Temperatures:

Ambient.

### Product Transfer:

Take precautionary measures against static discharge. Earth/Ground all equipment.

### Other Information:

KRATON Polymer has a tendency to accumulate static charge during transport, handling and processing. Reducing the velocity of material transfer will reduce the likelihood that charge will be created. Static charge buildup can be a potential fire hazard when used in the presence of volatile or flammable vapors or in high airborne dust concentrations. For more information, consult the KRATON Polymers Static Electricity Safety Bulletin available from your sales representative.

## SECTION 8

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Appropriate measures include:

Adequate ventilation and/or engineering controls when material is heated in processing.

### Personal Protective Equipment

Personal protective equipment (PPE) selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Information on the selection of eye, skin and respiratory protection for use with this material is provided below.

#### Eye Protection:

Chemical goggles, or Safety glasses

#### Skin Protection:

Use protective clothing which is chemical resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection(s) should take into account such factors as job task, type of exposure and durability requirements.

#### Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Types of respirator(s) to be considered in the selection process include:

Air-Purifying Respirator for Dusts and Mists, Supplied-Air Respirator

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance & Odor:** Solid. Essentially odorless.

<b>Solubility (in Water)</b>	Negligible	<b>Specific Gravity</b>	< 1
<b>Stability</b>	Stable		

**SECTION 10 REACTIVITY AND STABILITY**

**Stability:**

Material is stable under normal conditions.

**Conditions to Avoid:**

Avoid contact with strong oxidizing agents. Accumulation of product in areas exposed to elevated temperatures for extended periods in air may result in self-heating and autoignition. Avoid elevated temperatures in storage for prolonged periods of time (example: 5 days at 200 deg. F).

**Hazardous Decomposition Products:**

Hazardous vapors from heated products are not expected to be generated under normal processing temperatures and conditions.

Although highly dependent on temperature and environmental conditions, a variety of thermal decomposition products may be present if the product is overheated, is smoldering or catches fire. These range from simple hydrocarbons (such as methane and propane) to toxic/irritating vapors (such as carbon monoxide and dioxide, acrolein, aldehydes and ketones). See Handling in Section 7.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Other Information:**

Elastomers are high molecular weight polymers which all evidence indicates are biologically inactive.

**SECTION 12 ENVIRONMENTAL FATE AND EFFECTS**

This section will be updated as ecological reviews are completed.

**SECTION 13 DISPOSAL CONSIDERATIONS**

**General Recommendations:**

If this material becomes a waste, it would not be a hazardous waste by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with local regulations.

**SECTION 14 TRANSPORT INFORMATION**

**US Department of Transportation Classification:**

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

**International Air Transportation Association Classification:**

This material is not classified as hazardous under IATA regulations.

**International Maritime Organization - IMDG:**

This material is not classified as hazardous under IMDG regulations.

**SECTION 15 REGULATORY INFORMATION**

The regulatory information provided is not intended to be comprehensive. Other federal, state and local regulations may apply to this material.

**Federal Regulatory Status**

**Superfund Amendment & Reauthorization Act (SARA) Title III:**

This material is not regulated under SARA Title III.

**Toxic Substances Control Act (TSCA) Inventory Status:**

Component(s) of this material is(are) listed on the EPA TSCA Inventory of Chemical Substances.

**State Regulatory Status**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**Pennsylvania Right-To-Know Chemical List:**

Calcium Carbonate (1317-65-3) < 30% weight

**SECTION 16 OTHER INFORMATION**

Revision#: **04**

Revision Date: **March 30, 2005**

Revisions since last change (discussion): **Section 2 revised & Section 16 information completely rewritten.**

**This is a Research and Development product.**

This document should be made available to all who may handle the product.

The information in this document is based on our current knowledge and is intended to describe the product for the purposes of Health, Safety and Environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Advice in this document relates only to the product as originally supplied. Where other ingredients are added in the processing of this product, advice should be sought on their safe handling and use.

Information on the food packaging clearances of individual products is available from KRATON Polymers.

**Medical, Healthcare and Cosmetic Applications and Trademark Usage**

KRATON Polymers' products should not be used in any devices or materials intended for implantation in the human body as defined by the U.S. Food and Drug Administration under 21 CFR 812.3(d) and 21 CFR 860.3(d).

KRATON Polymers' products may, in certain circumstances, be used in the following products or applications with prior written approval for each specific product or application:

- a. Cosmetics (exclusive of packaging or delivery applications).
- b. Drugs and other Pharmaceuticals (exclusive of packaging or delivery applications).

KRATON Polymers' trade names, trademarks, logos or other similar identifying characteristics should not be used in the manufacture, sale, or promotion of cosmetics, drugs, and pharmaceutical products or other medical/healthcare applications or materials.

## **KRATON Polymers Research and Development SEBS OE Product**

KRATON Polymers has no specific expertise in these markets and applications, and does not intend to perform testing, clinical studies or other investigations of the suitability of its products for specific applications.

Each customer or user of KRATON Polymers' products is solely responsible for determining the suitability of the materials it selects for the intended purpose and acknowledges that it has not relied on any representations of KRATON Polymers regarding suitability for use in its intended cosmetics, drugs, pharmaceutical products or materials.

Please contact your KRATON Polymers Sales Representative for more details before using our products in these specific applications.

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