



## Safety Data Sheet

### USA

**24 Hour Emergency Assistance:** CHEMTREC - Domestic: +1 800 424 9300

**24 Hour Emergency Assistance:** CHEMTREC - International: +1 703 527 3887

**General Assistance Number:** +1 800 4 Kraton

**24 Hour Health and Safety Assistance:** +1 800 305 1438

### EUROPE

**24 Hour Emergency Assistance:** SGS ECLN: +32 35 75 03 30

For all other inquires, please contact your Sales Representative or the Technical Support Line: +32 10 470 697

Visit our Website at [www.kraton.com](http://www.kraton.com)

## Section 1. Material/Company Identification

### PRODUCT NAME

#### Kraton Polymers IR Latex Series Products:

(This SDS covers all alphanumeric suffixes for the following products. Suffixes designate location of manufacture, product form and/or new commercial grade):

**IR0401, IR0401B**

### CHEMICAL FAMILY

Polyisoprene

### PRODUCT FAMILY

Elastomer

### CORPORATE OFFICE

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### UNITED KINGDOM OFFICE

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## Section 2. Hazards Identification

### HMIS Hazard Class

Health: 0 Flammability: 1 Physical Hazards: 0

### Human Health Hazards

None

### Environmental Hazards

None

### Safety Hazards

None

### Special Notes

These components are synthetic rubber compounds, which are essentially non-toxic. Material is non-irritating.

## Section 3. Composition

SUBSTANCES ARE NON-HAZARDOUS and NOT CLASSIFIED

## Section 4. First Aid Measures

### Symptoms and Effects

None

### Inhalation

None

### Skin

Flush skin with water.

### Eye

Flush eyes with water.

### Ingestion

None

### Advice to physicians

Treat symptoms.

## Section 5. Fire Fighting Measures

### NFPA 704 Hazard Class

Health: 0 Flammability: 1 Instability: 0

### Specific Hazards

Not flammable but will burn. Combustion products may include carbon monoxide and carbon dioxide.

### Extinguishing Media

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

### Unsuitable Extinguishing Media

Water in a spray may disperse fire.

### Protective Equipment

Full protective clothing and self contained breathing apparatus.

## Section 6. Accidental Release Measures

### Personal Precautions

None

### Environmental Precautions

None

### Clean-up Methods - Small Spillage

Shovel up and place in a labeled, sealable container for subsequent disposal as required by local, state, federal, international or country specific regulations.

### Clean-Up Methods - Large Spillage

Transfer to a labeled, sealable container for product recovery or disposal as required by local, state, federal, international or country specific regulations.

### Protective Measures

Wear appropriate personal protective equipment when responding to spills.

## Spill Management

Shovel and sweep up or use industrial vacuum cleaner. Proper disposal should be evaluated based on the regulations of this material (refer to Section 13). Prevent entry into waterways, sewer, or confined areas.

## Section 7. Handling and Storage

### Handling

Take precautionary measures against static discharges, earth/ground all equipment. Use local exhaust 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. The temperatures listed are indicated only for safety reasons (risk of fire and product degradation) and are not 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 product data documents or other technical literature available from your sales representative.

### Storage

Keep container dry. Keep in a cool, well-ventilated place. All Kraton polymers contain an antioxidant to aide in stabilizing the polymer over its recommended use and storage conditions. Exposure to direct sunlight or elevated temperatures over prolonged periods of time consumes the antioxidant at an increased rate and may lead to self heating and thermal degradation. Avoid storage under pressure or at elevated temperatures to minimize particulate clustering. Do not stack Flexible Intermediate Bulk Containers (FIBCs) or palletized bags.

### Storage Temperatures

Between 5° C and 30° C; 18° C recommended. Protect from freezing. Temperature controlled vehicle/container.

### Product Transfer

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

### Other Information

None

## Section 8. Exposure Controls/Personal Protection

### Occupational Exposure

None

### Engineering Control Measures

Use local exhaust ventilation.

### Respiratory Protection

Where local exhaust ventilation is not practicable and odors are detected use a negative pressure half face respirator equipped with a cartridge designed to protect against organic vapors and if dust is also present a particulate pre-filter should also be used.

### Hand Protection

Cloth gloves if desired.

### Eye Protection

Safety Glasses

### Body Protection

Standard issue work clothes which may include: apron, safety shoes or boots as necessary.

## Section 9. Physical and Chemical Properties

**Physical State:** Emulsion

**Color:** Clear or White

**Odor:** Essentially odorless

**Flash Point:** None

**Density:** Typical between 880-950 kg/m<sup>3</sup> at 20 Deg. C

**Specific Gravity:** <1

**Bulk density (for solids):** Typical 300-400 kg/m<sup>3</sup> at 20 Deg. C

**Solubility (In Water):** Insoluble

**N-octanol/water partition coefficient (log Pow):** Not applicable

**All other properties are not applicable.**

## Section 10. Reactivity and Stability

### Stability

Stable under ambient conditions. Oxidizes exothermically above ambient temperature.

### 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 auto ignition. Avoid elevated temperatures in storage for prolonged periods of time.

### Hazardous Decomposition Products

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

None under ambient conditions. Although highly dependent on temperature and environmental conditions, a variety of thermal decomposition products may be present if the product is over heated, is smoldering or catches fire. Typical decomposition products are ultimately oxides of carbon.

## Section 11. Toxicological Information

### Basis for Assessment

Toxicological data has not been determined for this product.

### Acute Toxicity Oral

Expected to be of low toxicity, LD50 > 2000 mg/kg

### Acute Toxicity Dermal

Expected to be of low toxicity, LD50 > 2000 mg/kg

### Acute Toxicity Inhalation

No data available, but not expected.

### Skin Irritation

Not expected to be irritating.

### Eye Irritation

Not expected to be irritating.

### Skin Sensitization

Not expected to be a skin sensitizer.

### Repeated Dose Toxicity

Repeated exposure does not cause toxic effects.

### **Mutagenicity**

No data available, but not expected.

This product is not classified by the following: The International Agency for Research on Cancer (IARC), The National Toxicology Program (NTP) or The American Conference of Governmental Industrial Hygienists (ACGIH).

### **Other Information**

Kraton Polymers products are high molecular weight polymers which are non-toxic and biologically inactive.

We do not intentionally add organotin compounds or phthalates to our products.

These products are manufactured with synthetic raw materials that do not contain animal products or by-products.

Kraton Polymers do not contain natural rubber or natural rubber latex.

We do not use naturally occurring food allergens.

## **Section 12. Ecological Information**

### **Basis for assessment**

No ecotoxicological data has been generated for this product.

### **Mobility**

Floats on water. Remains on surface of soil.

### **Persistence/Degradability**

Not expected to be inherently biodegradable. Persists under anaerobic conditions.

### **Bioaccumulation**

Not expected to bioaccumulate.

### **Acute Toxicity - Fish**

None

### **Acute Toxicity - Invertebrates**

None

### **Acute Toxicity - Algae**

None

### **Acute Toxicity - Bacteria**

None

### **Sewage Treatment**

None

## **Section 13. Disposal Considerations**

### **Product Disposal**

Recover or recycle if possible, otherwise; incinerate or use a licensed landfill.

### **Container Disposal**

Remove all packaging for recovery or disposal.

## Local Legislation

Consult local, state, federal, international or country specific regulations as appropriate.

## FEDERAL LEGISLATION

### Resource Conservation and Recovery Act - RCRA (40CFR 261)

If this product becomes a waste and has not been chemically altered it is not considered a hazardous waste.

### Emergency Planning and Community Right-to-Know Act (EPCRA)

Not regulated.

### Comprehensive Environmental Response, Compensation and Liability Act (CERCLA/Superfund)

Not regulated.

### Superfund Amendments and Reauthorization Act Title III:

Section 302 - Extremely Hazardous Substances

Section 304 - Hazardous Substances

Section 311 / 312 - Hazard Communication Standard

Section 313 - Toxic Chemical List

Not regulated.

## Section 14. Transport Information

### US Department of Transportation (DOT) 49CFR 171-180

This product is not classified as hazardous.

### International Air Transportation Association Classification (IATA)

This product is not classified.

### International Maritime Organization (IMDG)

This product is not classified.

### UN, IMO, ADR/RID, ICAO Code

This product is not dangerous.

### Harmonized Tariff System (HTS)

Harmonized System Number: 4002.60

### Export Administration Regulations

Does not require a license: EAR 99

**INTERNATIONAL LEGISLATION**

**GLOBAL CHEMICAL INVENTORY STATUS – All of the substances are acceptable for use under:**

AUSTRALIA – Inventory of Chemical Substances (AICS)  
CANADA – (CEPA) Domestic Substances List (DSL)  
CHINA – Inventory of Existing Chemical Substances (IECSC)  
EU – European Inventory of Existing Chemical Substances (EINECS)  
JAPAN – Inventory of Existing and New Chemical Substances (IENCS)  
KOREA – Existing Chemicals Inventory (KECI)  
NEW ZEALAND – New Zealand Inventory of Chemicals (NZIOC)  
PHILIPPINES – Inventory of Chemicals and Chemical Substances (PICCS)  
USA – Toxic Substances Control Act (TSCA)

**This document is compliant with the Globally Harmonized System (GHS) for the classification, labeling, and packaging (CLP) of substances and mixtures.**

**EU REACH Article 29 (Requirements for Safety Data Sheets) and Japan Ministry of Economy, Trade, and Industry (METI), Ministry of Health, Labor, and Welfare (MHLW) and Ministry of the Environment (MOE).**

**EU Directive 67/548/EEC, 1999/45/EC, 91/155/EEC, as amended by GHS (CLP) of substances and mixtures**

Not classified.

**OSHA Hazard Communication Standard 29FR 1910.1200**

Not classified.

**AUSTRALIAN MSDS LEGISLATION: National Code of Practice for the Preparation of Material Safety Data Sheets, 2<sup>nd</sup> Edition [NOHSC: 2011 (2003)] under s.38(i) of the *National Occupational Health and Safety Commission Act 1985 (Cwlth)*.**

Not regulated.

**CANADA Workplace Hazardous Materials Information System (WHMIS)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required. This is NOT a WHMIS controlled product.

**EU Regulation (EC) 1907/2006 REACH**

Polymers are exempted from registration and evaluation. Therefore, Kraton products are exempted by regulation.

Annex V exempts from registration additives used in our polymers as antioxidants, defoaming agents, stabilisers, etc., and exempts substances that are naturally occurring that have not been chemically modified, Article 2(7)(b). Use of our products in medical devices regulated by Council Directive 90/385/EEC of 20 June 1990 and 93/42/EEC of 14 June 1993 and Directive 98/79/EC, or used in cosmetic products by Directive 76/768/EEC or used as a food contact material under Regulation (EC) No 1935/2004 are also exempted.

**International Nomenclature of Cosmetic Ingredients (INCI)**

Polyisoprene

**EU Directive 2002/95/EC Restrictions of Hazardous Substances (RoHS) in electrical and electronic equipment**

Restricted substances: Lead, Mercury, Cadmium, Hexavalent Chromium, PBB and PBDE

Not regulated.

**EU Directive 2002/96/EC Waste Electrical and Electronic Equipment (WEEE)**

Not regulated.

**EU Directive 91/689/EEC Hazardous Waste**

Not regulated.

**EU Directive 94/62/EC** as amended by **2004/12/EC (Packaging and packaging waste)**

Not regulated. The product meets the requirement for the total amount of cadmium, chromium, lead and mercury to be less than 100 parts per million.

**EU Directive 2000/53/EC** as amended in 2002 (**End of life vehicle**)

Not regulated.

**EU Directive 2037/2000 Ozone Depleters (Class I or II) as defined in Montreal Protocol**

Not regulated.

**Article 19g(5) Federal Water Management Act (WHG) of 17 May 1999 (amended in July 2005)**

Our products are classified into the Water Hazard Class WGK 1.

**International Conventions**

**Chemical Weapons, Rotterdam PIC (Prior Informed Consent), Persistent Organic Pollutants (POP),**

**Drug Precursors**

Not regulated.

**UNITED STATES: FEDERAL REGULATIONS**

**Food and Drug Administration (FDA) 21 CFR 170-199**

Products on this SDS may conform with uses under food contact regulations as an article or a component of an article intended for food contact. Most Kraton Polymers comply with worldwide regulations for food contact applications, including those of the Food and Drug Administration (FDA) and the European regulatory agencies. For specific clearances, consult your Sales Representative.

**Toxic Substances Control Act (TSCA) Section 4, 5(a)(2), (e), (f), 6, 7 or 12(b)**

Not regulated.

**Clean Air Act Amendments Section 602 (Class I or II) Ozone Depleters**

Not regulated.

**Clean Air Act Section 111 Volatile Organic Compounds (VOC)**

Not regulated

**Clean Air Act Section 112 Hazardous Air Pollutants (HAP)**

Not regulated.

**Clean Water Act Section 307 Priority Pollutants**

Not regulated.

**UNITED STATES: STATE REGULATIONS**

**Right-to-Know Laws (Massachusetts, New Jersey, New York State, Pennsylvania)**

Not regulated.

**Coalition of Northeastern Governors (CONEG)**

Not regulated. The product meets the requirement for the total amount of cadmium, chromium, lead and mercury to be less than 100 parts per million.

Revision #: **02**

Revision Date: **September 23, 2009**

Revisions since last change: **Changes in Sections 1 and 16.**

**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' 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 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' 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.

**Information on the food packaging clearances of individual products is available from Kraton Polymers at 800-457-2866.**

**Other information**

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**Disclaimer**

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.