

1. Identification

Product identifier	Kraton™ G Polymers (SEP(S)) Undusted
Other means of identification	
SDS number	16210
Product Code	G1701, G1702, G1703, Suffix Examples: HU, MU, VU
Recommended use	Industrial use
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
	CORPORATE OFFICE
Name	Kraton Corporation
Address	9950 Woodloch Forest Dr., Suite 2400 The Woodlands, TX 77380, USA
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	EUROPEAN CENTRAL OFFICE
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Technical Support Line - International	+1 800 4 Kraton (572866) ; +1 281 504 4950
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SGS ECLN:	+32 35 75 03 30

2. Hazard(s) identification

Hazards for the product as sold

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Not applicable.
Response	Not applicable.

Storage	Not applicable.
Disposal	Not applicable.
Hazard(s) not otherwise classified (HNOC)	Static charges generated by emptying package in or near flammable vapor may cause flash fire.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS No./Unique ID	%
Styrene-Ethylene/Propylene-(Styrene) (SEP(S))		68648-89-5	≤ 100

4. First-aid measures

Inhalation	If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
Skin contact	If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Wash the skin immediately with soap and water. Get medical attention if irritation develops and persists.
Eye contact	If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.
Ingestion	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water spray, dry chemical, carbon dioxide.
Unsuitable extinguishing media	Do not use water jet.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Wear suitable protective equipment.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of fumes from molten product. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Avoid contact with hot material. Ensure adequate ventilation. For personal protection, see section 8 of the SDS. If spilled, may cause a slipping hazard. Avoid dust formation. Keep away from sources of ignition - No smoking.
Methods and materials for containment and cleaning up	Collect and dispose of spillage as indicated in section 13 of the SDS. Avoid the generation of dusts during clean-up. The product is immiscible with water and will spread on the water surface. Attempt to reclaim the free product, if this is possible. The product is insoluble in water.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Keep away from sources of ignition - No smoking. Avoid heat, sparks, open flames and other ignition sources. Do not smoke. Static electricity and formation of sparks must be prevented. Ground container and transfer equipment to eliminate static electric sparks. Avoid contact with hot material. Do not breathe dust from this material. Avoid breathing vapor from heated material. Avoid release to the environment. Observe good industrial hygiene practices. Follow all SDS/label precautions even after container is emptied because they may retain product residues. Maintain a fire watch if material reaches 280°C (536°F).

Conditions for safe storage, including any incompatibilities

Store indoor. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. To maintain product quality, do not store in heat or direct sunlight. Keep in a cool, well-ventilated place. Store in tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Guard against dust accumulation of this material. Use care in handling/storage. Store away from incompatible materials (see Section 10 of the SDS). Do not store outside. Care should be taken when storing and handling this product. Apart from the specific nature of the polymer product, conditions such as humidity, sunlight, and temperature have an influence on the way the product behaves during storage and handling. Special attention should be paid to avoid inappropriate stacking of palletized bags or other package units. Indeed, polymer products may be dimensionally unstable under certain conditions. Do not stack Flexible Intermediate Bulk Containers (FIBCs) or palletized bags. Avoid storage under pressure or at elevated temperatures to minimize particulate clustering.

8. Exposure controls/personal protection

Occupational exposure limits

This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles). Wear a face shield when working with molten material.

Skin protection

Hand protection

When handling hot material, use heat resistant gloves. No specific hand protection noted, but gloves may still be advisable. Gloves are recommended for prolonged use. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Other

Wear suitable protective clothing and gloves. For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Eye wash fountain and emergency showers are recommended. Launder contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical state

Solid.

Form

Powder.

Color

White.
Clear.

Odor

Odorless.

Melting point/freezing point

Not available.

Boiling point or initial boiling point and boiling range

Not applicable.

Flammability Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not applicable.
Not applicable.

**Explosive limit - lower (%)
temperature** Not applicable.

Explosive limit - upper (%) Not applicable.
Not applicable.

**Explosive limit - upper (%)
temperature** Not applicable.

Flash point Not applicable.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

pH Not applicable.

Kinematic viscosity Not available.

Solubility

Solubility (water) Insoluble.

**Partition coefficient
(n-octanol/water)** Not available.

Vapor pressure Not applicable.

Density and/or relative density

Relative density > 0.88 - < 0.95

**Relative density
temperature** 68 °F (20 °C)

Vapor density Not applicable.

Particle characteristics Not available.

Other information

Evaporation rate Not applicable.

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

**Possibility of hazardous
reactions** Risk of self-heating and self-ignition under long term exposure to high temperatures.

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

Incompatible materials This product may react with strong oxidizing agents. Strong acids, alkalies and oxidizing agents.

**Hazardous decomposition
products** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Inhalation Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.

Skin contact Molten material will produce thermal burns.

Eye contact Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.

Ingestion Health injuries are not known or expected under normal use.

**Symptoms related to the
physical, chemical and
toxicological characteristics** Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity	Not known.	
Styrene-Ethylene/Propylene-(Styrene) (SEP(S))		USP Systemic Toxicity Study in Mice – Extract:, No significant and/or relevant adverse effects reported.; for a representative substance.
Skin corrosion/irritation	Molten material will produce thermal burns.	
Irritation Corrosion - Skin		
Styrene-Ethylene/Propylene-(Styrene) (SEP(S))		USP Intracutaneous Study in Rabbits – Extract:, for a representative substance. Result: Negative.
Serious eye damage/eye irritation	Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Sensitization		
Styrene-Ethylene/Propylene-(Styrene) (SEP(S))		Tests for irritation and skin sensitization, for a representative substance. Result: Negative. Notes: ISO 10993-10 Guinea Pig Maximization Sensitization Test
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Mutagenicity		
Styrene-Ethylene/Propylene-(Styrene) (SEP(S))		In Vitro Bacterial Mutagenicity Study in E.Coli and S.Typhimurium from extract., for a representative substance. Result: Negative.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Not listed.		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)		
Not listed.		
US. National Toxicology Program (NTP) Report on Carcinogens		
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Further information		
Styrene-Ethylene/Propylene-(Styrene) (SEP(S))		Cytotoxicity Study using the Colony Assay in Chinese Hamster Lung Cells (V79);, No significant and/or relevant adverse effects reported.; for a representative substance. In Vitro Haemolysis Study in Red Blood Cells, Japanese MHLW;;, No significant and/or relevant adverse effects reported.; for a representative substance. USP Muscle Implantation Study in Rabbits – 7 Day:, No significant and/or relevant adverse effects reported.; for a representative substance.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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Components	Species	Test Results
Styrene-Ethylene/Propylene-(Styrene) (SEP(S)) (CAS 68648-89-5)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Rainbow Trout
		> 1000 mg/l, 96 hr
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according to IMO instruments	Not available.

15. Regulatory information

US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
Toxic Substances Control Act (TSCA)	All components are either listed on the US EPA TSCA Inventory list and designated as "active" or are exempt from listing.	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.	
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed.	
SARA 304 Emergency release notification	Not regulated.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	Not listed.	
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
SARA 302 Extremely hazardous substance	Not listed.	
SARA 311/312 Hazardous chemical	No	
SARA 313 (TRI reporting)	Not regulated.	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

16. Other information, including date of preparation or last revision

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Version # 5.0

NFPA ratings Health: 0
Flammability: 1
Instability: 0

NFPA ratings



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Revision information

Other information, including date of preparation or last revision: Disclaimer