1. Identification

Product identifier
Kraton™ G Polymers (SEBS and SEBS OE)

Other means of identification
SDS number 14361
Product Code A1535, A1536, G1633, G1640, G1641, G1642, G1643, G1645, G1650, G1651, G1652, G1654, G1657, G1660, G1726, G4609, G4610, E1830
Synonyms This SDS covers all alphanumeric suffixes for the following products. Suffixes designate location of manufacture, dusting agent, product form. * It also includes all SQRs such as SQR 1111 for cosmetic use.

Recommended use
Industrial use

Recommended restrictions
None known.

Manufacturer/Importer/Supplier/Distributor information

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 Telephone +1 281 504 4700

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SGS ECLN: +32 35 75 03 30

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA defined hazards Not classified.

Label elements
Hazard symbol None.
Signal word None.
Hazard statement Not applicable.
Precautionary statement

Prevention Not applicable.
Response Not applicable.
Storage Not applicable.
Disposal Not applicable.

Hazard(s) not otherwise classified (HNOC) Static charge accumulation potential.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene-Ethylene/Butylene-Styrene Polymer (SEBS)</td>
<td></td>
<td>66070-58-4</td>
<td>&lt;100</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed Dusts may irritate the respiratory tract, skin and eyes. Prolonged contact may cause dryness of the skin.
Indication of immediate medical attention and special treatment needed Treat symptomatically. No specific antidotes are recommended.

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 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. Use water spray to cool unopened containers.
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 If spilled, may cause a slipping hazard. Avoid dust formation. Wear appropriate personal protective equipment. Keep away from sources of ignition - No smoking. Ensure adequate ventilation.
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.
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. 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. Maintain a fire watch if material reaches 280°C (536°F). Avoid contact with hot material. Do not breathe dust from this material. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities
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. Store in original tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Guard against dust accumulation of this material. Store away from incompatible materials (see Section 10 of the SDS). 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

<table>
<thead>
<tr>
<th>US. OSHA Table Z-3 (29 CFR 1910.1000)</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional components</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organic Dust</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 mppcf</td>
<td>Total dust.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mppcf</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>TWA</td>
<td>0.8 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 mppcf</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards</th>
<th>Additional components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological limit values</td>
<td>Silica, amorphous</td>
<td>TWA</td>
<td>6 mg/m³</td>
</tr>
</tbody>
</table>

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).

- **Skin protection**
  Gloves are recommended for prolonged use. When handling hot material, use heat resistant gloves.

- **Hand protection**
  Wear suitable protective clothing and gloves.

- **Other**
  Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

**Appearance**
- **Physical state**: Solid.
- **Form**: Dense Pellet. Crumb. Powder.
- **Color**: Clear. White.
- **Odor**: Odorless.
- **Odor threshold**: Not available.
- **pH**: Not applicable.
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: Not applicable.
- **Flash point**: Not applicable.
- **Evaporation rate**: Not applicable.
- **Flammability (solid, gas)**: The product is not flammable.

**Upper/lower flammability or explosive limits**
- **Flammability limit - lower (%)**: Not applicable.
- **Flammability limit - lower (%) temperature**: Not applicable.
Flammability limit - upper (%)
Not applicable.

Flammability limit - upper (%), temperature
Not applicable.

Explosive limit - lower (%)
Not applicable.

Explosive limit - upper (%)
Not applicable.

Vapor pressure
Not applicable.

Vapor density
Not applicable.

Relative density
0.88 - 0.95 at 20°C

Solubility(ies)
Insoluble.

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

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

Viscosity
Not available.

Other information
Explosive properties
Not explosive.

Oxidizing properties
Not available.

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. No dangerous reaction known under conditions of normal use.

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

Incompatible materials
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. Inhalation of dusts may cause respiratory irritation.

Skin contact
No adverse effects due to skin contact are expected.

Eye contact
Health injuries are not known or expected under normal use. Dust in the eyes will cause irritation. 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 classified.

Styrene-Ethylene/Butylene-Styrene Polymer (SEBS) USP Systemic Toxicity Study in Mice – Extract: No significant and/or relevant adverse effects reported.

Skin corrosion/irritation
Not classified.

Irritation Corrosion - Skin
Styrene-Ethylene/Butylene-Styrene Polymer (SEBS) USP Intracutaneous Study in Rabbits – Extract: Result: Negative.

Serious eye damage/eye irritation
No data available.

Respiratory or skin sensitization

Respiratory sensitization
No data available.

Skin sensitization
Not classified.
Germ cell mutagenicity  
Not classified.

Mutagenicity

Styrene-Ethylene/Butylene-Styrene Polymer (SEBS)  
In Vitro Bacterial Mutagenicity Study in E.Coli and S.Typhimurium from extract.  
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 1910.1001-1050)  
Not regulated.

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/Butylene-Styrene Polymer (SEBS)  
In Vitro Haemolysis Study in Red Blood Cells, Japanese MHLW; No significant and/or relevant adverse effects reported.

USP Muscle Implantation Study in Rabbits – 7 Day; No significant and/or relevant adverse effects reported.

12. Ecological information

Ecotoxicity  
Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

Persistence and degradability  
Not inherently biodegradable.

Bioaccumulative potential  
The product is not bioaccumulating.

Mobility in soil  
No data available.

Other adverse effects  
Not available.

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.

Waste from residues / unused products  
Dispose of in accordance with local regulations.

Contaminated packaging  
Not applicable.

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 Annex II of MARPOL 73/78 and the IBC Code  
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.  
All components are on the U.S. EPA TSCA Inventory List.

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 1910.1001-1050)
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

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.

NFPA ratings
Health: 0
Flammability: 1
Instability: 0

16. Other information, including date of preparation or last revision
Issue date 08-17-2017
Revision date 10-23-2017
Version # 1.4
Further information For more information about processing precautions, consult the Kraton Polymers Data Documents, Static Electricity Bulletin (Document Number K0073), or other technical literature available from your Sales Representative.
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Revision information

Regulatory information: Japan Fire Prevention Ordinance
HazReg Data: Europe - EU