

## 1. Identification

|   |   |
|---|---|
| <b>Product identifier</b>                                     | <b>Kraton™ MD1156 ES</b>  |
| <b>Other means of identification</b>                          |   |
| <b>SDS number</b>   | 15072   |
| <b>Synonyms</b>   | Synthetic amorphous silica is a nanostructured material according to the definition of ISO TS 80004-1 and as defined in Regulation 2011/696/EU, as amended. * The silica dusting agent is composed of primary particles with a median size < 100 nm which are present as aggregates and agglomerates with a mean diameter scale range above 100 nm in the dusting agent used. |
| <b>Recommended use</b>  | Industrial use  |
| <b>Recommended restrictions</b>                               | None known.   |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |   |
|   | CORPORATE OFFICE  |
| <b>Name</b>   | Kraton Corporation  |
| <b>Address</b>  | 15710 John F Kennedy Blvd., Suite 300<br>Houston, TX 77032, USA   |
| <b>Telephone</b>  | +1 281 504 4700   |
|   | EUROPEAN CENTRAL OFFICE   |
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| <b>Website</b>  | www.Kraton.com  |
| <b>CHEMTREC - Domestic:</b>                                   | +1 800 424 9300   |
| <b>CHEMTREC - International:</b>                              | +1 703 527 3887   |
| <b>SGS ECLN:</b>  | +32 35 75 03 30   |

## 2. Hazard(s) identification

|                                |                 |
|--------------------------------|-----------------|
| <b>Physical hazards</b>        | Not classified. |
| <b>Health hazards</b>          | Not classified. |
| <b>OSHA defined hazards</b>    | Not classified. |
| <b>Label elements</b>          |                 |
| <b>Hazard symbol</b>           | None.           |
| <b>Signal word</b>             | None.           |
| <b>Hazard statement</b>        | Not applicable. |
| <b>Precautionary statement</b> |                 |
| <b>Prevention</b>              | Not applicable. |
| <b>Response</b>                | Not applicable. |

|  |                                       |
|--|---------------------------------------|
| <b>Storage</b>                                   | Not applicable.                       |
| <b>Disposal</b>                                  | Not applicable.                       |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | Static charge accumulation potential. |
| <b>Supplemental information</b>                  | None.                                 |

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                           | Common name and synonyms | CAS number | %    |
|---|--------------------------|------------|------|
| Styrene-Butadiene-Styrene Polymer (SBS) |                          | 9003-55-8  | <100 |
| Silica, amorphous                       |                          | 7631-86-9  | <1   |

### 4. First-aid measures

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

### 5. Fire-fighting measures

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

### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | 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. |
| <b>Methods and materials for containment and cleaning up</b>               | Avoid the generation of dusts during clean-up. The product is immiscible with water and will spread on the water surface.  |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |

### 7. Handling and storage

|                                      |  |
|--------------------------------------|--|
| <b>Precautions for safe handling</b> | 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 225°C (437°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**

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 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. Use care in handling/storage. Do not stack Flexible Intermediate Bulk Containers (FIBCs) or palletized bags. Avoid storage under pressure or at elevated temperatures to minimize particulate clustering. 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.

**8. Exposure controls/personal protection****Occupational exposure limits****US. OSHA Table Z-3 (29 CFR 1910.1000)**

| Components                        | Type | Value                 | Form                 |
|-----------------------------------|------|-----------------------|----------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 5 mg/m <sup>3</sup>   | Respirable fraction. |
|                                   |      | 15 mg/m <sup>3</sup>  | Total dust.          |
|                                   |      | 0.8 mg/m <sup>3</sup> |                      |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                        | Type | Value               |
|-----------------------------------|------|---------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 6 mg/m <sup>3</sup> |

**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****Hand protection**

Gloves are recommended for prolonged use. When handling hot material, use heat resistant gloves.

**Other**

Wear suitable protective clothing and gloves.

**Respiratory protection**

If ventilation is insufficient, suitable respiratory protection must be provided.

**Thermal hazards**

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**

Porous Pellet.

**Color**

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****Explosive limit - lower (%)**

Not applicable.

|  |                                    |
|--|------------------------------------|
|  | Not applicable.                    |
| <b>Explosive limit - lower (%) temperature</b> | Not applicable.                    |
| <b>Explosive limit - upper (%) temperature</b> | Not applicable.<br>Not applicable. |
| <b>Explosive limit - upper (%) temperature</b> | Not applicable.                    |
| <b>Vapor pressure</b>                          | Not applicable.                    |
| <b>Vapor density</b>                           | Not applicable.                    |
| <b>Relative density</b>                        | > 0.88 - < 0.95 at 20°C            |
| <b>Solubility(ies)</b>                         |                                    |
| <b>Solubility (water)</b>                      | Insoluble.                         |
| <b>Partition coefficient (n-octanol/water)</b> | Not available.                     |
| <b>Auto-ignition temperature</b>               | Not available.                     |
| <b>Decomposition temperature</b>               | Not available.                     |
| <b>Viscosity</b>                               | Not available.                     |
| <b>Other information</b>                       |                                    |
| <b>Explosive properties</b>                    | Not explosive.                     |
| <b>Oxidizing properties</b>                    | Not available.                     |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.   |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | Risk of self-heating and self-ignition under long term exposure to high temperatures. No dangerous reaction known under conditions of normal use. |
| <b>Conditions to avoid</b>                | Avoid exposure to high temperatures or direct sunlight.   |
| <b>Incompatible materials</b>             | Strong acids, alkalis and oxidizing agents.   |
| <b>Hazardous decomposition products</b>   | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.                                  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | 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. |
| <b>Skin contact</b> | No adverse effects due to skin contact are expected.  |
| <b>Eye contact</b>  | 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.  |
| <b>Ingestion</b>    | 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

|  |                    |   |
|--|--------------------|---|
| <b>Acute toxicity</b>                    | Not classified.    |   |
| Styrene-Butadiene-Styrene Polymer (SBS)  |                    | USP Systemic Toxicity Study in Mice – Extract:, No significant and/or relevant adverse effects reported.; for a representative substance. |
| <b>Skin corrosion/irritation</b>         | Not classified.    |   |
| <b>Irritation Corrosion - Skin</b>       |                    |   |
| Styrene-Butadiene-Styrene Polymer (SBS)  |                    | USP Intracutaneous Study in Rabbits – Extract:, for a representative substance.<br>Result: Negative.                                      |
| <b>Serious eye damage/eye irritation</b> | No data available. |   |

## Respiratory or skin sensitization

**Respiratory sensitization** No data available.

**Skin sensitization** Not classified.

### Sensitization

Styrene-Butadiene-Styrene Polymer (SBS)

Tests for irritation and skin sensitization, for a representative substance.

Result: Negative.

Notes: ISO 10993-10 Guinea Pig Maximization Sensitization Test

**Germ cell mutagenicity** Not classified.

### Mutagenicity

Styrene-Butadiene-Styrene Polymer (SBS)

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-Butadiene-Styrene Polymer (SBS)

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

| Components  | Species            | Test Results       |
|---|--------------------|--------------------|
| Styrene-Butadiene-Styrene Polymer (SBS) (CAS 9003-55-8) |                    |                    |
| <b>Aquatic</b>  |                    |                    |
| <i>Acute</i>  |                    |                    |
| Fish  | LC50 Rainbow Trout | > 1000 mg/l, 96 hr |

**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.

**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

**Issue date** 11-29-2018

**Revision date** 02-10-2023

**Version #** 2.0

**NFPA ratings** Health: 0  
Flammability: 1  
Instability: 0

**NFPA ratings**



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## Revision information

Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Disclosure Overrides

Handling and storage: Conditions for safe storage, including any incompatibilities

Regulatory Information: Regulatory Information

Regulatory information: US federal regulations

Regulatory information: Toxic Substances Control Act (TSCA)

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

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

Material Attributes & Uses; Experimental Data: Material Attributes