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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name or designation of the mixture** Kraton™ D Polymers (SBS and SBS OE)

Nanoform.

**Registration number**

-

**Synonyms**

This SDS covers all alphanumeric suffixes for the following products. Suffixes designate location of manufacture, dusting agent, product form. \* This SDS IS NOT for milled grades (3rd suffix M) \* The Nanoform statement and information regarding Silica, amorphous which is listed in Sections 1 and 3 are applicable ONLY when these grades contain silica as a dusting agent (2nd suffix S). \* 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.

**SDS number**

14313

**Product code**

D0243, D0246, D1101, D1102, D1116, D1118, D1152, D1155, D1157, D1184, D1189, D1191, D1192, D1194, D4150, D4153, D4270, D4271, D6041, DX1000

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Industrial use

**Uses advised against** None known.

### 1.3. Details of the supplier of the safety data sheet

CORPORATE OFFICE

**Name**

Kraton Corporation

**Address**

9950 Woodloch Forest Dr., Suite 2400  
The Woodlands, TX 77380, USA

**Telephone**

+1 281 504 4700

EUROPEAN CENTRAL OFFICE

**Name**

Kraton Polymers Nederland B.V.

**Address**

Transistorstraat 16  
1322 CE Almere, The Netherlands

**Telephone**

+31 (0) 36 546 2846

**Email address**

Product.Safety@Kraton.com

**Technical Support Line - International**

+1 800 4 Kraton (572866) ; +1 281 504 4950

**Technical Support Line - EU**

+31 (0) 36 546 2800

**Website**

www.Kraton.com

### 1.4. Emergency telephone number

**CHEMTREC - Domestic:** +1 800 424 9300

**CHEMTREC - International:** +1 703 527 3887

**SGS ECLN:** +32 35 75 03 30

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

|                   |                                         |
|-------------------|-----------------------------------------|
| Contains:         | Styrene-Butadiene-Styrene Polymer (SBS) |
| Hazard pictograms | None.                                   |
| Signal word       | None.                                   |
| Hazard statements | Not applicable.                         |

#### Precautionary statements

|            |                 |
|------------|-----------------|
| Prevention | Not applicable. |
| Response   | Not applicable. |
| Storage    | Not applicable. |
| Disposal   | Not applicable. |

Supplemental label information None.

### 2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Static charge accumulation potential.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name                           | %    | CAS-No. / EC No.       | REACH Registration No. | Index No. | Notes |
|-----------------------------------------|------|------------------------|------------------------|-----------|-------|
| Styrene-Butadiene-Styrene Polymer (SBS) | <100 | 9003-55-8<br>-         | -                      | -         |       |
| Classification: -                       |      |                        |                        |           |       |
| Silica, amorphous                       | <1   | 7631-86-9<br>231-545-4 | 01-2119379499-16       | -         |       |
| Classification: -                       |      |                        |                        |           |       |

#### Nanoform

|                            |                      |
|----------------------------|----------------------|
| Silica, amorphous          |                      |
| Particle size              | >0,1 µm Agglomerates |
| Particle size distribution | 0 Not available      |

## SECTION 4: First aid measures

General information Not available.

### 4.1. Description of 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.                                         |

**4.2. Most important symptoms and effects, both acute and delayed** Dusts may irritate the respiratory tract, skin and eyes. Prolonged contact may cause dryness of the skin.

**4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically. No specific antidotes are recommended.

## SECTION 5: Firefighting measures

General fire hazards Static charges generated by emptying package in or near flammable vapour may cause flash fire.

### 5.1. Extinguishing media

|                              |                                            |
|------------------------------|--------------------------------------------|
| Suitable extinguishing media | Water spray, dry chemical, carbon dioxide. |
|------------------------------|--------------------------------------------|

|                                                                   |                                                                                                                  |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Unsuitable extinguishing media</b>                             | Do not use water jet.                                                                                            |
| <b>5.2. Special hazards arising from the substance or mixture</b> | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |
| <b>5.3. Advice for firefighters</b>                               |                                                                                                                  |
| <b>Special protective equipment for firefighters</b>              | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                    |
| <b>Special fire fighting procedures</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.                       |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                                    |                                                                                          |
|------------------------------------|------------------------------------------------------------------------------------------|
| <b>For non-emergency personnel</b> | Wear appropriate personal protective equipment. If spilled, may cause a slipping hazard. |
| <b>For emergency responders</b>    | Keep unnecessary personnel away.                                                         |

**6.2. Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Avoid the generation of dusts during clean-up. The product is immiscible with water and will spread on the water surface.

**6.4. Reference to other sections** Not available.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Minimise 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.

**7.2. 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 palletised bags. Avoid storage under pressure or at elevated temperatures to minimise 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 palletised bags or other package units. Indeed, polymer products may be dimensionally unstable under certain conditions.

**7.3. Specific end use(s)** Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended

| Components                        | Type | Value    | Form                 |
|-----------------------------------|------|----------|----------------------|
| Silica, amorphous (CAS 7631-86-9) | MAK  | 4 mg/m3  | Inhalable fraction.  |
|                                   | STEL | 20 mg/m3 | Inhalable fraction.  |
|                                   |      | 10 mg/m3 | Respirable fraction. |
| Additional components             | Type | Value    | Form                 |
| Talc                              | MAK  | 2 mg/m3  | Respirable fraction. |
|                                   | STEL | 20 mg/m3 | Inhalable fraction.  |
|                                   |      | 10 mg/m3 | Respirable fraction. |

##### Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

| Components                        | Type | Value    | Form                 |
|-----------------------------------|------|----------|----------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 3 mg/m3  | Respirable fraction. |
|                                   |      | 10 mg/m3 | Inhalable fraction.  |

**Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended**

| Additional components | Type | Value    |
|-----------------------|------|----------|
| Organic Dust          | TWA  | 10 mg/m3 |
| Talc                  | TWA  | 2 mg/m3  |

**Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended**

| Components                        | Type | Value        | Form                 |
|-----------------------------------|------|--------------|----------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 4 mg/m3      | Inhalable fraction.  |
|                                   |      | 0,07 mg/m3   | Respirable fraction. |
| Additional components             | Type | Value        | Form                 |
| Talc                              | TWA  | 1 fibers/cm3 | Respirable fraction. |
|                                   |      | 6 mg/m3      | Inhalable fraction.  |
|                                   |      | 3 mg/m3      | Respirable fraction. |

**Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended**

| Components                        | Type | Value     | Form             |
|-----------------------------------|------|-----------|------------------|
| Silica, amorphous (CAS 7631-86-9) | MAC  | 6 mg/m3   | Total dust.      |
|                                   |      | 0,1 mg/m3 | Respirable dust. |
| Additional components             | Type | Value     | Form             |
| Talc                              | MAC  | 1 mg/m3   | Respirable dust. |

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended**

| Components                        | Type | Value        |
|-----------------------------------|------|--------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 2 mg/m3      |
| Additional components             | Type | Value        |
| Talc                              | TWA  | 706 part/cm3 |

**Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)**

| Components                        | Type | Value    | Form             |
|-----------------------------------|------|----------|------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 4 mg/m3  | Dust.            |
| Additional components             | Type | Value    | Form             |
| Talc                              | TWA  | 2 mg/m3  | Respirable dust. |
|                                   |      | 10 mg/m3 | Total dust.      |

**Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2**

| Components                        | Type | Value            | Form                        |
|-----------------------------------|------|------------------|-----------------------------|
| Silica, amorphous (CAS 7631-86-9) | STEL | 20 mg/m3         | Dust.                       |
|                                   |      | 10 mg/m3         | Respirable dust.            |
|                                   |      | 1 mg/m3          | Respirable quartz fraction. |
|                                   | TLV  | 5 mg/m3          | Respirable dust.            |
|                                   |      | 10 mg/m3         | Dust.                       |
|                                   |      | 0,5 mg/m3        | Respirable quartz fraction. |
| Additional components             | Type | Value            | Form                        |
| Talc                              | STEL | 0,006 mg/m3      | Fiber.                      |
|                                   | TLV  | 0,003 fibers/cm3 | Fiber.                      |

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended**

| Components                        | Type | Value   | Form                            |
|-----------------------------------|------|---------|---------------------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 2 mg/m3 | Fine dust, respiratory fraction |

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended**

| Additional components | Type | Value    | Form                            |
|-----------------------|------|----------|---------------------------------|
| Talc                  | TWA  | 5 mg/m3  | Fine dust, respiratory fraction |
|                       |      | 10 mg/m3 | Total dust.                     |

**Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health Components**

| Additional components             | Type | Value   | Form            |
|-----------------------------------|------|---------|-----------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 5 mg/m3 |                 |
| Talc                              | TWA  | 2 mg/m3 | Inhalable dust. |
|                                   |      | 1 mg/m3 | Respirable.     |

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984 Components**

| Additional components             | Type                     | Value     | Form             |
|-----------------------------------|--------------------------|-----------|------------------|
| Silica, amorphous (CAS 7631-86-9) | VME                      | 4 mg/m3   | Total dust.      |
|                                   |                          | 0,9 mg/m3 | Respirable dust. |
| <b>Regulatory status:</b>         | Regulatory binding (VRC) |           |                  |
| Talc                              | VME                      | 4 mg/m3   | Total dust.      |
|                                   |                          | 0,9 mg/m3 | Respirable dust. |
| <b>Regulatory status:</b>         | Regulatory binding (VRC) |           |                  |

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated**

| Additional components             | Type | Value      | Form                 |
|-----------------------------------|------|------------|----------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 0,02 mg/m3 | Respirable fraction. |
|                                   |      |            |                      |
| Talc                              | TWA  | 4 mg/m3    | Inhalable dust.      |
|                                   |      |            |                      |

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace Components**

| Additional components             | Type | Value      | Form                 |
|-----------------------------------|------|------------|----------------------|
| Silica, amorphous (CAS 7631-86-9) | AGW  | 4 mg/m3    | Inhalable fraction.  |
|                                   |      |            |                      |
| Talc                              | AGW  | 10 mg/m3   | Inhalable fraction.  |
|                                   |      | 1,25 mg/m3 | Respirable fraction. |

**Greece. OELs, Presidential Decree No. 307/1986, as amended**

| Additional components | Type | Value    | Form        |
|-----------------------|------|----------|-------------|
| Talc                  | TWA  | 2 mg/m3  | Respirable. |
|                       |      | 10 mg/m3 | Inhalable   |

**Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended**

| Additional components | Type | Value   | Form             |
|-----------------------|------|---------|------------------|
| Talc                  | TWA  | 2 mg/m3 | Respirable dust. |

**Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended**

| Additional components | Type | Value          | Form             |
|-----------------------|------|----------------|------------------|
| Talc                  | TWA  | 0,3 fibers/cm3 | Fiber.           |
|                       |      | 5 mg/m3        | Respirable dust. |
|                       |      | 10 mg/m3       | Total dust.      |

**Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations**

| Components                        | Type | Value     | Form                  |
|-----------------------------------|------|-----------|-----------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 6 mg/m3   | Total inhalable dust. |
|                                   |      | 2,4 mg/m3 | Respirable dust.      |
| Additional components             | Type | Value     | Form                  |
| Organic Dust                      | TWA  | 10 mg/m3  |                       |
| Talc                              | TWA  | 10 mg/m3  | Total inhalable dust. |
|                                   |      | 0,8 mg/m3 | Respirable dust.      |

**Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended**

| Additional components | Type | Value    | Form                 |
|-----------------------|------|----------|----------------------|
| Organic Dust          | TWA  | 3 mg/m3  | Respirable fraction. |
|                       |      | 10 mg/m3 | Inhalable fraction.  |
| Talc                  | TWA  | 2 mg/m3  | Respirable fraction. |

**Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended**

| Components                        | Type | Value   |  |
|-----------------------------------|------|---------|--|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 1 mg/m3 |  |

**Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended**

| Components                        | Type | Value    | Form                 |
|-----------------------------------|------|----------|----------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 5 mg/m3  | Respirable fraction. |
|                                   |      | 10 mg/m3 | Inhalable fraction.  |
| Additional components             | Type | Value    | Form                 |
| Organic Dust                      | TWA  | 5 mg/m3  |                      |
| Talc                              | TWA  | 2 mg/m3  | Inhalable fraction.  |
|                                   |      | 1 mg/m3  | Respirable fraction. |

**Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as amended**

| Additional components | Type | Value      | Form             |
|-----------------------|------|------------|------------------|
| Talc                  | TWA  | 0,25 mg/m3 | Respirable dust. |

**Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended**

| Components                        | Type | Value     | Form             |
|-----------------------------------|------|-----------|------------------|
| Silica, amorphous (CAS 7631-86-9) | TLV  | 1,5 mg/m3 | Respirable dust. |
| Additional components             | Type | Value     | Form             |
| Talc                              | TLV  | 6 mg/m3   | Total dust.      |
|                                   |      | 2 mg/m3   | Respirable dust. |

**Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)**

| Additional components | Type | Value   | Form                 |
|-----------------------|------|---------|----------------------|
| Talc                  | TWA  | 4 mg/m3 | Inhalable fraction.  |
|                       |      | 1 mg/m3 | Respirable fraction. |

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)**

| Additional components | Type | Value    | Form                 |
|-----------------------|------|----------|----------------------|
| Organic Dust          | TWA  | 10 mg/m3 |                      |
| Talc                  | TWA  | 2 mg/m3  | Respirable fraction. |

**Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)**

| Additional components | Type | Value   | Form                 |
|-----------------------|------|---------|----------------------|
| Talc                  | TWA  | 2 mg/m3 | Respirable fraction. |

**Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)**

| Additional components | Type | Value    | Form                 |
|-----------------------|------|----------|----------------------|
| Talc                  | TWA  | 2 mg/m3  | Respirable fraction. |
|                       |      | 2 mg/m3  | Respirable fraction. |
|                       |      | 10 mg/m3 | Total                |

**Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Ann. I 100/2001), as amended**

| Components                        | Type | Value     | Form                 |
|-----------------------------------|------|-----------|----------------------|
| Silica, amorphous (CAS 7631-86-9) | KTV  | 20 mg/m3  | Inhalable fraction.  |
|                                   |      | 2,5 mg/m3 | Respirable fraction. |
| Additional components             | Type | Value     | Form                 |
| Talc                              | KTV  | 20 mg/m3  | Inhalable fraction.  |
|                                   |      | 2,5 mg/m3 | Respirable fraction. |

**Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended**

| Components                        | Type | Value      | Form                 |
|-----------------------------------|------|------------|----------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 4 mg/m3    | Inhalable fraction.  |
| Additional components             | Type | Value      | Form                 |
| Talc                              | TWA  | 10 mg/m3   | Inhalable fraction.  |
|                                   |      | 1,25 mg/m3 | Respirable fraction. |

**Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)**

| Components                        | Type | Value    | Form                 |
|-----------------------------------|------|----------|----------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 3 mg/m3  | Respirable fraction. |
|                                   |      | 10 mg/m3 | Inhalable fraction.  |
| Additional components             | Type | Value    | Form                 |
| Organic Dust                      | TWA  | 10 mg/m3 |                      |
| Talc                              | TWA  | 2 mg/m3  | Respirable fraction. |

**Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended**

| Components                        | Type | Value     | Form             |
|-----------------------------------|------|-----------|------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 5 mg/m3   | Inhalable dust.  |
|                                   |      | 2,5 mg/m3 | Respirable dust. |
| Additional components             | Type | Value     | Form             |
| Organic Dust                      | TWA  | 5 mg/m3   | Total dust.      |
| Talc                              | TWA  | 2 mg/m3   | Total dust.      |
|                                   |      | 1 mg/m3   | Respirable dust. |

**Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte**

| Components                        | Type | Value   | Form                 |
|-----------------------------------|------|---------|----------------------|
| Silica, amorphous (CAS 7631-86-9) | TWA  | 4 mg/m3 |                      |
| Additional components             | Type | Value   | Form                 |
| Talc                              | TWA  | 3 mg/m3 | Respirable fraction. |

**UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1**

| Additional components | Type | Value   | Form             |
|-----------------------|------|---------|------------------|
| Talc                  | TWA  | 1 mg/m3 | Respirable dust. |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

|                                                                              |                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Derived no effect levels (DNELs)</b>                                      | Not available.                                                                                                                                                                                                                                                                                                                         |
| <b>Predicted no effect concentrations (PNECs)</b>                            | Not available.                                                                                                                                                                                                                                                                                                                         |
| <b>8.2. Exposure controls</b>                                                |                                                                                                                                                                                                                                                                                                                                        |
| <b>Appropriate engineering controls</b>                                      | Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.                                                                                                                                                                          |
| <b>Individual protection measures, such as personal protective equipment</b> |                                                                                                                                                                                                                                                                                                                                        |
| <b>General information</b>                                                   | Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.                                                                                                                                                                                |
| <b>Eye/face protection</b>                                                   | Wear safety glasses with side shields (or goggles).                                                                                                                                                                                                                                                                                    |
| <b>Skin protection</b>                                                       |                                                                                                                                                                                                                                                                                                                                        |
| <b>- Hand protection</b>                                                     | Gloves are recommended for prolonged use. When handling hot material, use heat resistant gloves.                                                                                                                                                                                                                                       |
| <b>- Other</b>                                                               | Wear suitable protective clothing and gloves.                                                                                                                                                                                                                                                                                          |
| <b>Respiratory protection</b>                                                | If ventilation is insufficient, suitable respiratory protection must be provided.                                                                                                                                                                                                                                                      |
| <b>Thermal hazards</b>                                                       | Wear appropriate thermal protective clothing, when necessary.                                                                                                                                                                                                                                                                          |
| <b>Hygiene measures</b>                                                      | 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.                                                                                                                  |
| <b>Environmental exposure controls</b>                                       | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels. Avoid release to the environment. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                                 |                                          |
|-----------------------------------------------------------------|------------------------------------------|
| <b>Physical state</b>                                           | Solid.                                   |
| <b>Form</b>                                                     | Porous Pellet<br>Dense Pellet.<br>Crumb. |
| <b>Colour</b>                                                   | White.                                   |
| <b>Odour</b>                                                    | Odourless.                               |
| <b>Melting point/freezing point</b>                             | Not available.                           |
| <b>Boiling point or initial boiling point and boiling range</b> | Not applicable.                          |
| <b>Flammability</b>                                             | The product is not flammable.            |
| <b>Upper/lower flammability or explosive limits</b>             |                                          |
| <b>Explosive limit - lower ( %)</b>                             | Not applicable.<br>Not applicable.       |
| <b>Explosive limit - lower ( %)<br/>temperature</b>             | Not applicable.                          |
| <b>Explosive limit – upper ( %)</b>                             | Not applicable.<br>Not applicable.       |
| <b>Explosive limit - upper ( %)<br/>temperature</b>             | Not applicable.                          |
| <b>Flash point</b>                                              | Not applicable.                          |
| <b>Auto-ignition temperature</b>                                | Not available.                           |
| <b>Decomposition temperature</b>                                | Not available.                           |
| <b>pH</b>                                                       | Not applicable.                          |
| <b>Kinematic viscosity</b>                                      | Not available.                           |
| <b>Solubility</b>                                               |                                          |
| <b>Solubility (water)</b>                                       | Insoluble.                               |
| <b>Partition coefficient (n-octanol/water) (log value)</b>      | Not available.                           |
| <b>Vapour pressure</b>                                          | Not applicable.                          |
| <b>Density and/or relative density</b>                          |                                          |
| <b>Relative density</b>                                         | > 0,88 - < 0,95 at 20°C                  |
| <b>Vapour density</b>                                           | Not applicable.                          |

**Particle characteristics** Not available.

## 9.2. Other information

**9.2.1. Information with regard to physical hazard classes** No relevant additional information available.

## 9.2.2. Other safety characteristics

**Evaporation rate** Not applicable.

## SECTION 10: Stability and reactivity

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

**10.2. Chemical stability** Material is stable under normal conditions.

**10.3. 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.

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

**10.5. Incompatible materials** Strong acids, alkalies and oxidizing agents.

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

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

**Inhalation** Inhalation of vapours/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** Direct contact with eyes may cause temporary irritation.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** 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.

**Skin corrosion/irritation** Not classified.

#### Irritation Corrosion - Skin

Styrene-Butadiene-Styrene Polymer (SBS)

USP Intracutaneous Study in Rabbits – Extract:, for a representative substance.  
Result: Negative.

**Serious eye damage/eye irritation** No data available.

**Respiratory sensitisation** No data available.

**Skin sensitisation** Not classified.

#### Sensitisation

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.

**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.

**Mixture versus substance information** No information available.

## 11.2. Information on other hazards

**Endocrine disrupting properties** The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Other 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.

## SECTION 12: Ecological information

**12.1. Toxicity** 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) |                                                                                                                                                                                                                              |               |                    |
| Aquatic                                                 |                                                                                                                                                                                                                              |               |                    |
| Acute                                                   |                                                                                                                                                                                                                              |               |                    |
| Fish                                                    | LC50                                                                                                                                                                                                                         | Rainbow trout | > 1000 mg/l, 96 hr |
| 12.2. Persistence and degradability                     | Not inherently biodegradable.                                                                                                                                                                                                |               |                    |
| 12.3. Bioaccumulative potential                         | The product is not bioaccumulating.                                                                                                                                                                                          |               |                    |
| Partition coefficient n-octanol/water (log Kow)         | Not available.                                                                                                                                                                                                               |               |                    |
| Bioconcentration factor (BCF)                           | Not available.                                                                                                                                                                                                               |               |                    |
| 12.4. Mobility in soil                                  | No data available.                                                                                                                                                                                                           |               |                    |
| 12.5. Results of PBT and vPvB assessment                | This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.                                                                                                    |               |                    |
| 12.6. Endocrine disrupting properties                   | The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |               |                    |
| 12.7. Other adverse effects                             | Not available.                                                                                                                                                                                                               |               |                    |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                     |                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Residual waste</b>               | Dispose of in accordance with local regulations.                                                               |
| <b>Contaminated packaging</b>       | Not applicable.                                                                                                |
| <b>EU waste code</b>                | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| <b>Disposal methods/information</b> | Collect and reclaim or dispose in sealed containers at licensed waste disposal site.                           |
| <b>Special precautions</b>          | Dispose in accordance with all applicable regulations.                                                         |

## SECTION 14: Transport information

### IATA

|                                           |                                   |
|-------------------------------------------|-----------------------------------|
| <b>14.1. UN number</b>                    | Not regulated as dangerous goods. |
| <b>14.2. UN proper shipping name</b>      | Not regulated as dangerous goods. |
| <b>14.3. Transport hazard class(es)</b>   |                                   |
| <b>Class</b>                              | Not assigned.                     |
| <b>Subsidiary hazard</b>                  | -                                 |
| <b>14.4. Packing group</b>                | -                                 |
| <b>14.5. Environmental hazards</b>        | No.                               |
| <b>14.6. Special precautions for user</b> | Not assigned.                     |

### RID

|                        |                                   |
|------------------------|-----------------------------------|
| <b>14.1. UN number</b> | Not regulated as dangerous goods. |
|------------------------|-----------------------------------|

**14.2. UN proper shipping name** Not regulated as dangerous goods.

**14.3. Transport hazard class(es)**

Class Not assigned.

Subsidiary hazard -

**14.4. Packing group** -

**14.5. Environmental hazards** No.

**14.6. Special precautions for user** Not assigned.

#### ADN

**14.1. UN number** Not regulated as dangerous goods.

**14.2. UN proper shipping name** Not regulated as dangerous goods.

**14.3. Transport hazard class(es)**

Class Not assigned.

Subsidiary hazard -

**14.4. Packing group** -

**14.5. Environmental hazards** No.

**14.6. Special precautions for user** Not assigned.

#### IMDG

**14.1. UN number** Not regulated as dangerous goods.

**14.2. UN proper shipping name** Not regulated as dangerous goods.

**14.3. Transport hazard class(es)**

Class Not assigned.

Subsidiary hazard -

**14.4. Packing group** -

**14.5. Environmental hazards**

Marine pollutant No.

EmS Not assigned.

**14.6. Special precautions for user** Not assigned.

#### ADR

**14.1. UN number** Not regulated as dangerous goods.

**14.2. UN proper shipping name** Not regulated as dangerous goods.

**14.3. Transport hazard class(es)**

Class Not assigned.

Subsidiary hazard -

Hazard No. (ADR) Not assigned.

Tunnel restriction code Not assigned.

**14.4. Packing group** -

**14.5. Environmental hazards** No.

**14.6. Special precautions for user** Not assigned.

**14.7. Maritime transport in bulk according to IMO instruments** Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

#### Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended  
- Conditions of restriction given for the associated entry number should be considered

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### National regulations

Follow national regulation for work with chemical agents.

#### France regulations

France INRS Table of Occupational Diseases

Not regulated.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

Water hazard class AwSV: WGK 1 for the following products: D4150, D4153, D4270, D4271.

Water hazard class AwSV: Non-hazardous to water, ID number 766 for the following products: D1101, D1102, D1116, D1118, D1152, D1155, D1157, D1184, D1189, D1191, D1192, D0243, D0246, DX1000.

### SECTION 16: Other information

#### List of abbreviations

Not available.

#### References

Not available.

#### Information on evaluation method leading to the classification of mixture

Not applicable.

#### Full text of any statements, which are not written out in full under sections 2 to 15

None.

#### Revision information

SECTION 9: Physical and chemical properties: Form

#### Training information

Follow training instructions when handling this material.

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