## SAFETY DATA SHEET



#### 1. Identification

**Product identifier** Kraton™ D Polymers (SBS and SBS OE)

Other means of identification

SDS number 14313

D1101, D1102, D1116, D1118, D1152, D1155, D1157, D1184, D1189, D1191, D1192, D0243, **Product Code** 

D0246, DX1000, D4150, D4153, D4270, D4271

This SDS covers all alphanumeric suffixes for the following products. Suffixes designate location **Synonyms** 

of manufacture, dusting agent, product form. \* This SDS IS NOT for milled grades (3rd suffix M) \* The Nanoform statement and Silica, amorphous information 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.

Recommended use Industrial use Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

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## 2. Hazard(s) identification

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

Label elements

Hazard symbol None.

Material name: Kraton™ D Polymers (SBS and SBS OE) 14313 Version #: 3.0 Revision date: 02-09-2023 Issue date: 08-17-2017 Signal word None.

**Hazard statement** Not applicable.

**Precautionary statement** 

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

Hazard(s) not otherwise

classified (HNOC)

Static charge accumulation potential.

Supplemental information 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

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. Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. Eve contact

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

Unsuitable extinguishing

media

Water spray, dry chemical, carbon dioxide.

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 General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials. 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 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 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

Components	Type	Value	Form
Silica, amorphous (CAS 7631-86-9)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		0.8 mg/m3	
Additional components	Туре	Value	Form
Talc	TWA	0.1 mg/m3	Respirable.
		20 mppcf	
		2.4 mppcf	Respirable.
US. ACGIH Threshold Limit Value	es		
Additional components	Туре	Value	Form
Organic Dust	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Talc	TWA	2 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Silica, amorphous (CAS 7631-86-9)	TWA	6 mg/m3	
Additional components	Туре	Value	Form
Talc	TWA	2 mg/m3	Respirable.

**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

aloves.

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. or Dense Pellet.

White. Color Odorless. Odor **Odor threshold** Not available. Hq Not applicable. Melting point/freezing point Not available.

Initial boiling point and boiling

range

Not applicable.

Not applicable. Flash point Not applicable. Evaporation rate

Flammability (solid, gas) The product is not flammable.

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.

Vapor pressure Not applicable. Not applicable. Vapor density

> 0.88 - < 0.95 at 20°C Relative density

Solubility(ies)

Insoluble. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available.

**Auto-ignition temperature 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

Conditions to avoid

reactions

Risk of self-heating and self-ignition under long term exposure to high temperatures. No

dangerous reaction known under conditions of normal use.

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.

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

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.

Material name: Kraton™ D Polymers (SBS and SBS OE)

Information on toxicological effects

**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.

Not classified. Skin corrosion/irritation

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 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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **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 **Test Results** Species

Styrene-Butadiene-Styrene Polymer (SBS) (CAS 9003-55-8)

**Aquatic** 

Acute

Fish LC50 Rainbow Trout > 1000 mg/l, 96 hr

Not inherently biodegradable. Persistence and degradability

Material name: Kraton™ D Polymers (SBS and SBS OE) 14313 Version #: 3.0 Revision date: 02-09-2023 Issue date: 08-17-2017 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 Not available. Annex II of MARPOL 73/78 and

the IBC Code

## 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 of the mixture on the TSCA 8(b) inventory are designated

"active". 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 No

chemical

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

Not regulated.

(SDWA)

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

 Issue date
 08-17-2017

 Revision date
 02-09-2023

Version # 3.0

NFPA ratings Health: 0

Flammability: 1 Instability: 0

Material name: Kraton™ D Polymers (SBS and SBS OE)

14313 Version #: 3.0 Revision date: 02-09-2023 Issue date: 08-17-2017



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## **Revision information**

Product and Company Identification: Synonyms

Composition / Information on Ingredients: Disclosure Overrides

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

Handling and storage: Safe handling advice Handling and storage: Suitable Storage Conditions

Physical and chemical properties: Form Regulatory Information: Regulatory Information

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