

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

1.1. Product identifier

Trade name or designation of the mixture	Kraton™ G Polymers (SEBS and SEBS OE)
Registration number	-
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.
SDS number	14361
Product code	A1535, A1536, G1633, G1640, G1641, G1642, G1643, G1645, G1650, G1651, G1652, G1654, G1657, G1660, G1726, G4609, G4610, E1830
Issue date	17-August-2017
Version number	1,6
Revision date	08-November-2018
Supersedes date	23-October-2017

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 Polymers LLC
Address	15710 John F Kennedy Blvd., Suite 300
City/State	Houston, TX 77032, USA
Telephone	+1 281 504 4700

	EUROPEAN CENTRAL OFFICE
Name	Kraton Polymers Nederland B.V.
Address	Transistorstraat 16
City/State	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.

Hazard summary Not available.

2.2. Label elements

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

Contains: Styrene-Ethylene/Butylene-Styrene Polymer (SEBS)

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 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-Ethylene/Butylene-Styrene Polymer (SEBS)	<100	66070-58-4	-	-	
Classification:	-				

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.

Unsuitable extinguishing media Do not use water jet.

5.2. Special hazards arising from the substance or mixture Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel 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.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

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

6.3. Methods and material for containment and cleaning up Collect and dispose of spillage as indicated in section 13. 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 For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

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 280°C (536°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 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 palletised bags. Avoid storage under pressure or at elevated temperatures to minimise particulate clustering.

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

Additional components	Type	Value	Form
Silica, amorphous	MAK	4 mg/m ³	Inhalable fraction.

Belgium. Exposure Limit Values.

Additional components	Type	Value	Form
Organic Dust	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
Inorganic Dust	TWA	10 mg/m ³	
Silica, amorphous	TWA	10 mg/m ³	

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Additional components	Type	Value	Form
Organic Dust	TWA	10 mg/m ³	Dust.
		1 fibers/cm ³	Respirable fraction.
Inorganic Dust	TWA	10 mg/m ³	Inhalable fraction.
		10 mg/m ³	
Silica, amorphous	TWA	10 mg/m ³	Inhalable fraction.
		0,07 mg/m ³	Respirable fraction.

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Additional components	Type	Value	Form
Inorganic Dust	MAC	4 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.
Silica, amorphous	MAC	6 mg/m ³	Total dust.
		2,4 mg/m ³	Respirable dust.

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

Additional components	Type	Value	Form
Silica, amorphous	TWA	2 mg/m ³	

Czech Republic. OELs. Government Decree 361

Additional components	Type	Value	Form
Organic Dust	TWA	5 mg/m ³	Dust.

Czech Republic. OELs. Government Decree 361

Additional components	Type	Value	Form
Inorganic Dust	TWA	10 mg/m3	Dust.
Silica, amorphous	TWA	4 mg/m3	Dust.

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Additional components	Type	Value	Form
Organic Dust	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		1 mg/m3	Dust.
Inorganic Dust	TWA	5 mg/m3	Respirable dust.
Silica, amorphous	TWA	10 mg/m3	
		2 mg/m3	Respirable dust.

Finland. Workplace Exposure Limits

Additional components	Type	Value	Form
Inorganic Dust	TWA	10 mg/m3	Dust.

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

Additional components	Type	Value	Form
Organic Dust	VME	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
		10 mg/m3	
Inorganic Dust	VME	10 mg/m3	

Regulatory status: Regulatory binding (VRC)

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Regulatory status: Indicative limit (VL)

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

Additional components	Type	Value	Form
Organic Dust	TWA	4 mg/m3	Inhalable dust.
		0,3 mg/m3	Respirable dust.
Silica, amorphous	TWA	4 mg/m3	Inhalable fraction.

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

Additional components	Type	Value	Form
Organic Dust	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Silica, amorphous	AGW	4 mg/m3	Inhalable fraction.

Greece. OELs (Decree No. 90/1999, as amended)

Additional components	Type	Value	Form
Inorganic Dust	TWA	5 mg/m3	Respirable.
		10 mg/m3	Inhalable

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Additional components	Type	Value	Form
Organic Dust	TWA	6 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Inorganic Dust	TWA	10 mg/m3	

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Additional components	Type	Value	Form
Organic Dust	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Inorganic Dust	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		0,5 mg/m3	Dust.

Ireland. Occupational Exposure Limits

Additional components	Type	Value	Form
Organic Dust	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Total inhalable dust.
Inorganic Dust	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Total inhalable dust.
Silica, amorphous	TWA	6 mg/m ³	Total inhalable dust.
		2,4 mg/m ³	Respirable dust.

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Additional components	Type	Value	Form
Organic Dust	TWA	5 mg/m ³	Dust.
Silica, amorphous	TWA	1 mg/m ³	

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Additional components	Type	Value
Organic Dust	TWA	10 mg/m ³

Norway. Administrative Norms for Contaminants in the Workplace

Additional components	Type	Value	Form
Organic Dust	TLV	5 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.
Silica, amorphous	TLV	1,5 mg/m ³	Respirable dust.

Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Additional components	Type	Value	Form
Organic Dust	TWA	10 mg/m ³	Inhalable fraction.
		1 mg/m ³	Respirable fraction.
Silica, amorphous	TWA	2 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.

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

Additional components	Type	Value	Form
Organic Dust	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Additional components	Type	Value	Form
Inorganic Dust	TWA	10 mg/m ³	Inhalable fraction.

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Additional components	Type	Value	Form
Organic Dust	TWA	2 mg/m ³	Respirable aerosol fraction
		2 mg/m ³	Respirable aerosol fraction
		2 mg/m ³	Respirable fraction.
		2 mg/m ³	Respirable fraction.
		10 mg/m ³	Aerosol
		10 mg/m ³	
		10 mg/m ³	Dust.
Inorganic Dust	TWA	10 mg/m ³	Total
		10 mg/m ³	
Silica, amorphous	TWA	0,3 mg/m ³	

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Additional components	Type	Value	Form
Silica, amorphous	TWA	4 mg/m ³	Inhalable fraction.

Spain. Occupational Exposure Limits

Additional components	Type	Value	Form
Organic Dust	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Additional components	Type	Value	Form
Organic Dust	TWA	5 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Additional components	Type	Value	Form
Organic Dust	TWA	3 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.

UK. EH40 Workplace Exposure Limits (WELs)

Additional components	Type	Value	Form
Organic Dust	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.
Inorganic Dust	TWA	4 mg/m ³	Respirable.
		4 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.
		10 mg/m ³	Inhalable
Silica, amorphous	TWA	6 mg/m ³	Inhalable dust.
		2,4 mg/m ³	Respirable dust.

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

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

General information Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the 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.

Hygiene measures 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.

Environmental exposure controls Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Material name: Kraton™ G Polymers (SEBS and SEBS OE)

MSDS/SDS # 14361

Version #: 1,6

Revision date: 08-November-2018

Print date: 08-November-2018

Appearance	
Physical state	Solid.
Form	Dense Pellet. Crumb. Powder.
Colour	Clear. White.
Odour	Odourless.
Odour 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.

Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	0,88 - 0,95 at 20°C
Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not available.
9.2. Other information	No relevant additional information available.

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 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 sensitisation	No data available.	
Skin sensitisation	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.	
Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)		
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.	
Mixture versus substance information	No information available.	
Other 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.	

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-Ethylene/Butylene-Styrene Polymer (SEBS) (CAS 66070-58-4)		
Aquatic		
<i>Acute</i>		
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 Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

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

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 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 (EC) No. 850/2004 On persistent organic pollutants, Annex I 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

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.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. 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.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

Water hazard class AwSV: WGK 1 for the following products: G4609,G4610.

Water hazard class AwSV: Non-hazardous to water, ID number 766 for the following products: A1535,A1536,G1633,G1640,G1641,G1642,G1643,G1645,G1650,G1651,G1652,G1654,G1657,G1660,G1726,E1830.

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 H-statements not written out in full under Sections 2 to 15

None.

Revision information

Product and Company Identification: Product and Company Identification
Composition / Information on Ingredients: Disclosure Overrides
Regulatory Information: Regulatory Information
SECTION 16: Other information: Further information
HazReg Data: Europe - EU

Training information

Follow training instructions when handling this material.

Disclaimer

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