SAFETY DATA SHEET

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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 (SIS)
	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	14316
Product code	D0233, D1107, D1111, D1113, D1114, D1117, D1119, D1124, D1126, D1161, D1162, D1163, D1164, D1165, D1183, D1193

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-Isoprene-Styrene Polymer (SIS)
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-Isoprene-Styrene Polymer (SIS)	<100	25038-32-8 -	-	-	
Classification: -					
Silica, amorphous	<1	7631-86-9 231-545-4	-	-	
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.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

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 Wear appropriate personal protective equipment. If spilled, may cause a slipping hazard.

For emergency responders 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
Kaolin	MAK	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.
Talc	MAK	2 mg/m3	Respirable fraction.

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

Additional components	Type	Value	Form
	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.

Additional components	Type	Value	Form
Kaolin	TWA	2 mg/m3	Respirable fraction.
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
Kaolin	TWA	6 mg/m3	Inhalable fraction.
		3 mg/m3	Respirable fraction.
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
Kaolin	MAC	2 mg/m3	Respirable dust.
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.

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

Components	Type	Value	Form
		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
Kaolin	TLV	2 mg/m3	Respirable.
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

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	Type	Value
Silica, amorphous (CAS 7631-86-9)	TWA	5 mg/m3

Additional components	Type	Value	Form
Kaolin	TWA	2 mg/m3	Respirable.
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	Type	Value	Form
Silica, amorphous (CAS 7631-86-9)	VME	4 mg/m3	Total dust.
Regulatory status:	Regulatory binding (VRC)		
		0,9 mg/m3	Respirable dust.
Regulatory status:	Regulatory binding (VRC)		

Additional components	Type	Value	Form
Kaolin	VME	5 mg/m3	Respirable fraction.
Regulatory status:	Regulatory binding (VRC)		
		10 mg/m3	Inhalable fraction.
Regulatory status:	Regulatory binding (VRC)		
		10 mg/m3	
Regulatory status:	Indicative limit (VL)		
Talc	VME	4 mg/m3	Total dust.
Regulatory status:	Regulatory binding (VRC)		
		0,9 mg/m3	Respirable dust.
Regulatory status:	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

Components	Type	Value	Form
Silica, amorphous (CAS 7631-86-9)	TWA	0,02 mg/m3	Respirable fraction.

Additional components	Type	Value	Form
Kaolin	TWA	4 mg/m3	Inhalable dust.
Talc	TWA	4 mg/m3	Inhalable dust.

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

Components	Type	Value	Form
Silica, amorphous (CAS 7631-86-9)	AGW	4 mg/m3	Inhalable fraction.

Additional components	Type	Value	Form
Kaolin	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable 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
Kaolin	TWA	2 mg/m3	Respirable dust.
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
Kaolin	TWA	2 mg/m3	Respirable dust.
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
Kaolin	TWA	2 mg/m3	Respirable 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
Kaolin	TWA	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
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
Kaolin	TWA	10 mg/m3	Inhalable fraction.
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
Kaolin	TWA	2 mg/m3	Respirable fraction.
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
Kaolin	TWA	2 mg/m3	Respirable fraction.
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
Kaolin	TWA	10 mg/m3	Dust.
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
Kaolin	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
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
Kaolin	TWA	2 mg/m3	Respirable fraction.
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
Talc	TWA	2 mg/m3	Total dust.
		1 mg/m3	Respirable dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Type	Value
Silica, amorphous (CAS 7631-86-9)	TWA	4 mg/m3

Additional components	Type	Value	Form
Kaolin	TWA	3 mg/m3	Respirable fraction.
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
Kaolin	TWA	2 mg/m3	Respirable dust.
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.

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 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

Physical state	Solid.
Form	Dense Pellet.
Colour	Clear. or White. ~ Light yellow
Odour	Odourless.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	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.
Flash point	Not applicable.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not applicable.
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	Not applicable.
Density and/or relative density	
Relative density	> 0,88 - < 0,95 at 20°C
Vapour density	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-Isoprene-Styrene Polymer (SIS) — 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-Isoprene-Styrene Polymer (SIS) — 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-Isoprene-Styrene Polymer (SIS) — 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-Isoprene-Styrene Polymer (SIS) — 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-Isoprene-Styrene Polymer (SIS) — 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-Isoprene-Styrene Polymer (SIS) (CAS 25038-32-8)			
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

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. 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.

RID

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.

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.

IATA

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.
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 (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 Non-hazardous to water, ID Number 766

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 16: Other information: Disclaimer
HazReg Data: Pacific Rim

Training information Follow training instructions when handling this material.

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