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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 Milled Polymers (SBS and SBS OE)

Nanoform.

Registration number -

Synonyms

Suffixes designate location of manufacture, dusting agent, product form * 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 14315

Product code

D1101 AIM, D1101 ASM, D1101 JSM, D1101 KIM, D1116 AIM, D1116 ASM, D1116 KIM, D1118 ASM, D1118 ESM, D1118 ETM, D1118 KIM, D1133 KIM, D1184 AIM, D1184 ASM, D1184 ESM, D1184 KIM, D1189 ASM, D1191 EIM, D1191 ESM, D1192 ASM, D1192 ATM, D1192 ESM, D1192 ETM, D1118 KTM, D1157 ETM, D1152 ESM, D4153 ESM

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

Identified uses

Thermoplastic Elastomers for Advanced Materials, Adhesives, Sealants & Coatings, and Paving & Roofing.

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Name

CORPORATE OFFICE

Address

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

Telephone

+1 281 504 4700

Name

EUROPEAN CENTRAL OFFICE

Address

Kraton Polymers Nederland B.V.
 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 mixture 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

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	The mixture does not meet the criteria for classification.

Precautionary statements

Prevention	Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Keep away from heat/sparks/open flames and hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Prevent dust accumulation to minimize explosion hazard. Observe good industrial hygiene practices.
Response	Not available.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.

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. May form explosible dust-air mixture if dispersed. 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 -	-	-	
Classification: -					
Silica, amorphous	<5	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 May form combustible dust concentrations in air.

5.1. Extinguishing media	
Suitable extinguishing media	Water spray. Apply extinguishing media carefully to avoid creating airborne dust.
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	High concentration of airborne dust may form explosive mixture with air. Static charges generated by emptying package in or near flammable vapour may cause flash fire. 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.
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	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk. Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water. Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.
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 significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Static electricity and formation of sparks must be prevented. Maintain a fire watch if material reaches 225°C (437°F). Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store indoor. Keep in a cool, well-ventilated place. Store in original tightly closed container. Keep containers closed when not in use. Use care in handling/storage. 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. 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 at ambient temperature and atmospheric pressure. Guard against dust accumulation of this material. 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, as amended

Components	Type	Value	Form
Silica, amorphous (CAS 7631-86-9)	MAK	4 mg/m ³	Inhalable fraction.
	STEL	20 mg/m ³	Inhalable fraction.
		10 mg/m ³	Respirable fraction.
Additional components	Type	Value	Form
Dust	MAK	5 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
	STEL	20 mg/m ³	Inhalable fraction.
Inorganic Dust	MAK	10 mg/m ³	Respirable fraction.
		5 mg/m ³	Respirable fraction.
	STEL	20 mg/m ³	Inhalable fraction.
Talc	MAK	10 mg/m ³	Respirable fraction.
		2 mg/m ³	Respirable fraction.
	STEL	20 mg/m ³	Inhalable fraction.
		10 mg/m ³	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/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
Additional components	Type	Value	Form
Dust	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
Talc	TWA	2 mg/m ³	

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/m ³	Inhalable fraction.
		0,07 mg/m ³	Respirable fraction.
Additional components	Type	Value	Form
Inorganic Dust	TWA	1 fibers/cm ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
		10 mg/m ³	
Talc	TWA	1 fibers/cm ³	Respirable fraction.
		6 mg/m ³	Inhalable fraction.
		3 mg/m ³	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/m ³	Total dust.
		0,1 mg/m ³	Respirable dust.
Additional components	Type	Value	Form
Inorganic Dust	MAC	4 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.
Talc	MAC	1 mg/m ³	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/m ³
Additional components	Type	Value
Inorganic Dust	TWA	10 mg/m ³
Talc	TWA	706 part/cm ³

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/m ³	Dust.
Additional components	Type	Value	Form
Inorganic Dust	TWA	10 mg/m ³	Dust.
Talc	TWA	2 mg/m ³	Respirable dust.
		10 mg/m ³	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/m ³	Dust.
		10 mg/m ³	Respirable dust.
		1 mg/m ³	Respirable quartz fraction.
	TLV	5 mg/m ³	Respirable dust.
		10 mg/m ³	Dust.
		0,5 mg/m ³	Respirable quartz fraction.
Additional components	Type	Value	Form
Talc	STEL	0,006 mg/m ³	Fiber.
	TLV	0,003 fibers/cm ³	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/m ³	Fine dust, respiratory fraction
Additional components	Type	Value	Form
Inorganic Dust	TWA	5 mg/m ³	Fine dust.
		10 mg/m ³	
Talc	TWA	5 mg/m ³	Fine dust, respiratory fraction
		10 mg/m ³	Total dust.

Finland

Additional components	Type	Value
Dust	TWA	5 mg/m ³
		10 mg/m ³

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

Components	Type	Value	Form
Silica, amorphous (CAS 7631-86-9)	TWA	5 mg/m ³	
Additional components	Type	Value	Form
Inorganic Dust	TWA	10 mg/m ³	Dust.
Talc	TWA	2 mg/m ³	Inhalable dust.
		1 mg/m ³	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/m ³	Total dust.
Regulatory status:	Regulatory binding (VRC)		
		0,9 mg/m ³	Respirable dust.
Regulatory status:	Regulatory binding (VRC)		
Additional components	Type	Value	Form
Dust	VME	4 mg/m ³	Total dust.
Regulatory status:	Regulatory binding (VRC)		
		0,9 mg/m ³	Respirable dust.
Regulatory status:	Regulatory binding (VRC)		
Inorganic Dust	VME	5 mg/m ³	Respirable fraction.
Regulatory status:	Regulatory binding (VRC)		
		10 mg/m ³	
Regulatory status:	Indicative limit (VL)		
		10 mg/m ³	Inhalable fraction.
Regulatory status:	Regulatory binding (VRC)		
Talc	VME	4 mg/m ³	Total dust.
Regulatory status:	Regulatory binding (VRC)		
		0,9 mg/m ³	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/m ³	Respirable fraction.
Additional components	Type	Value	Form
Dust	TWA	4 mg/m ³	Inhalable dust.
Inorganic Dust	TWA	4 mg/m ³	Inhalable dust.
Talc	TWA	4 mg/m ³	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/m ³	Inhalable fraction.
Additional components	Type	Value	Form
Dust	AGW	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.
Inorganic Dust	AGW	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.
Talc	AGW	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.

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

Additional components	Type	Value	Form
Inorganic Dust	TWA	5 mg/m ³	Respirable.
		10 mg/m ³	Inhalable
Talc	TWA	2 mg/m ³	Respirable.
		10 mg/m ³	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
Inorganic Dust	TWA	10 mg/m ³	
Talc	TWA	2 mg/m ³	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
Dust	TWA	5 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.
Talc	TWA	0,3 fibers/cm ³	Fiber.
		5 mg/m ³	Respirable dust.
		10 mg/m ³	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/m ³	Total inhalable dust.
		2,4 mg/m ³	Respirable dust.
Additional components	Type	Value	Form
Dust	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Total inhalable dust.
Talc	TWA	10 mg/m ³	Total inhalable dust.
		0,8 mg/m ³	Respirable dust.

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

Additional components	Type	Value	Form
Talc	TWA	2 mg/m ³	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	Form
Silica, amorphous (CAS 7631-86-9)	TWA	1 mg/m ³	
Additional components	Type	Value	Form
Dust	TWA	5 mg/m ³	Dust.
Inorganic Dust	TWA	6 mg/m ³	

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/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
Additional components	Type	Value	Form
Dust	TWA	5 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
Inorganic Dust	TWA	5 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
Talc	TWA	2 mg/m ³	Inhalable fraction.
		1 mg/m ³	Respirable fraction.

Netherlands

Additional components	Type	Value	Form
Dust	TWA (MAC)	5 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.

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/m ³	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/m ³	Respirable dust.
Additional components	Type	Value	Form
Talc	TLV	6 mg/m ³	Total dust.
		2 mg/m ³	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
Inorganic Dust	TWA	10 mg/m ³	Inhalable fraction.
Talc	TWA	4 mg/m ³	Inhalable fraction.
		1 mg/m ³	Respirable fraction.

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

Additional components	Type	Value	Form
Talc	TWA	2 mg/m ³	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
Inorganic Dust	TWA	10 mg/m ³	Inhalable fraction.
Talc	TWA	2 mg/m ³	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
Dust	TWA	10 mg/m ³	Dust.
Talc	TWA	2 mg/m ³	Respirable fraction.
		2 mg/m ³	Respirable fraction.
		10 mg/m ³	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/m ³	Inhalable fraction.
		2,5 mg/m ³	Respirable fraction.
Additional components	Type	Value	Form
Dust	KTV	20 mg/m ³	Inhalable fraction.
		2,5 mg/m ³	Respirable fraction.
Talc	KTV	20 mg/m ³	Inhalable fraction.
		2,5 mg/m ³	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/m ³	Inhalable fraction.
Additional components	Type	Value	Form
Dust	TWA	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.
Inorganic Dust	TWA	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	Respirable fraction.
Talc	TWA	10 mg/m ³	Inhalable fraction.
		1,25 mg/m ³	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/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
Additional components	Type	Value	Form
Dust	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
Inorganic Dust	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
Talc	TWA	2 mg/m ³	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/m ³	Inhalable dust.
		2,5 mg/m ³	Respirable dust.
Additional components	Type	Value	Form
Talc	TWA	2 mg/m ³	Total dust.
		1 mg/m ³	Respirable dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Type	Value	Form
Silica, amorphous (CAS 7631-86-9)	TWA	4 mg/m ³	
Additional components	Type	Value	Form
Dust	TWA	3 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.
Inorganic Dust	TWA	3 mg/m ³	Respirable dust.
Talc	TWA	3 mg/m ³	Respirable fraction.

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

Additional components	Type	Value	Form
Dust	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.
Talc	TWA	1 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. Evaluate the need of classified electrical equipment. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. 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.

Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Dust Mask.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	When using, do not eat, drink or smoke. 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	Environmental manager must be informed of all major releases. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Form	Ground/Powder
Colour	White.
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.
Explosive limit - lower (%) temperature	Not applicable.
Explosive limit – upper (%)	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 available.
Density and/or relative density	
Relative density	> 0,88 - < 0,95
Vapour density	Not available.
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

Dust explosion properties

Kst <200 bar.m/s Kst = 1

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	Keep away from heat, sparks and open flame. Minimise dust generation and accumulation. Avoid exposure to high temperatures or direct sunlight.
10.5. Incompatible materials	Strong oxidising 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.
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.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CAS 128-37-0)		3 Not classifiable as to carcinogenicity to humans.
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.
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Other information

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		
<i>Acute</i>		
Fish	LC50 Rainbow trout	> 1000 mg/l, 96 hr

* Estimates for product may be based on additional component data not shown.

12.2. Persistence and degradability	Not inherently biodegradable.
12.3. Bioaccumulative potential	No data available.
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. Dispose of contents/container in accordance with local/regional/national/international regulations.
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.
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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

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

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

None.

Revision information

Product and Company Identification: Product and Company Identification
SECTION 16: Other information: Disclaimer
HazReg Data: Pacific Rim

Training information

Not available.

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