

Safety Data Sheet – July 2016

According to Regulation EC No 1907/2006 - REACH and Regulation EC No 1272/2008 - CLP

S1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1. Product identifier

Commercial name	SOLPRENE SBS
Chemical name	1,3-butadiene-styrene teleblock polymer
Synonyms	This SDS covers all alphanumeric suffixes for the following products. Suffixes designate product physical form and/or dusting agent: SOLPRENE 411 SOLPRENE 416 SOLPRENE 490 SOLPRENE 4301 SOLPRENE 4302 SOLPRENE 4318 SOLPRENE 9618
CAS	9003-55-8
EC (EINECS)	NA
Index No (annex VI Regulation EC No 1272/2008)	NA
Registration number	NA
Authorization number	NA

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

Consult technical information

1.3. Details of the supplier of the safety data sheet

Company	DYNASOL ELASTÓMEROS, S.A.
Address	Méndez Álvaro, 44 28045 – Madrid, Spain
Phone Santander (Spain)	(+34) 942 298 100
Phone Altamira (Mexico)	(+52) 833 229 0300
Fax	(+34) 913 238 352
e-mail address	SDSDynasol@repsol.com
Date	July 2016
Modification date	-
Revision number	-

1.4. Emergency telephone number

Emergency telephone number 24h Santander (Spain)	(+34) 911 142 520
Emergency telephone number 24h Altamira (Mexico)	(+44) (0) 125 239 670

S2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture	2.2. Label elements	
Classification Reg. (CE) 1272/2008 (CLP)	Labelling	
NA	Pictograms	NA
	Signal word	NA
	Hazard statements	NA
	Supplemental Information	NA
	Precautionary statements	NA

2.3. Other hazards

- Results of the assessment of PBT and vPvB in the product, in accordance with the criteria set out in Annex XIII of REACH, can be found in Section 12.5 of this MSDS.
- Please refer to Sections 5, 6 and 7 of this MSDS for information on other dangers, different from classification dangers but which may contribute to the overall hazards of the product.

S3 COMPOSITION/INFORMATION ON INGREDIENTS

1,3-butadiene-styrene teleblock polymer		
Dangerous components Reg. (CE) 1272/2008 (CLP)	Concentration (%)	Hazard statements
NA		

S4 FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

- Move the person to fresh air.
- If breathing is difficult give oxygen.
- Seek medical care.

Contact skin

- In case of burns from a melted product, quickly cool the material with abundant water.
- Do not remove the solidified product off burn without medical assistance.
- See a doctor and treat as a normal burn.

Ingestion/aspiration

- It is not frequent.
- Intestinal absorption is very low.
- Seek medical care.

Contact eyes

- In case of burns from a melted product, quickly cool the material with abundant water.
- Do not remove the solidified product off burn without medical assistance.
- See a doctor and treat as a normal burn.
- In case of contact with eyes wash with plenty of water if necessary, keeping your eyes open for at least 15 minutes.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

- Vapors from melted product may cause irritation to the respiratory tract and may cause dizziness and breathing difficulties.

Ingestion/aspiration

- This type of exposure is easy to prevent and infrequent.

Contact skin

- Exposure to melted product causes burns.

Contact eyes

- Exposure to melted product causes burns.
- Vapors from melted product may be irritating to the eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Seek medical care.

S5 | FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

- Water spray, CO₂, foam and dry chemical powder.

Unsuitable extinguishing media

- Water applied directly in jet stream may disperse the product.

5.2. Special hazards arising from the substance or mixture

Combustion products

- CO₂, H₂O and CO (in the absence of oxygen).

Special measures

- NA

Special hazards

- Molten product may spread fire.
- Fire may produce irritating gases.

5.3. Advice for firefighters

Clothing and gloves resistant to fire and SCBA.

S6 | ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

- Avoid contact with melted product and inhalation of vapors.
- Keep unnecessary people away.

Personal protection

- Wear safety goggles and appropriate gloves to avoid contact with melted product.
- In presence of vapors from melted product or high concentrations of dust, use respiratory protective mask.

6.2. Environmental precautions

Prevent product from reaching sewers or waterways.

6.3. Methods and material for containment and cleaning up

- Solid spills are collected with shovels or other means and placed in drums.
- Liquid spills are allowed to solidify before collecting as a solid.

6.4. Reference to other sections

Section 8 contains more detailed advice on personal protective equipment and section 13 on waste disposal.

S7	HANDLING AND STORAGE
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7.1. Precautions for safe handling

General precautions

- When handling hot material, avoid contact and vapor inhalation.
- Product may accumulate static charge during handling.
- Equipment must be properly grounded.
- Risk of explosion due to fine dust accumulation.
- Do not smoke, eat, or drink while handling product.
- Wash hands using suitable liquid detergent.

Specific conditions

- Good local exhaust ventilation when product is heated in processing.
- Respiratory protective mask when melted product vapors are present.

7.2. Conditions for safe storage, including any incompatibilities

Temperature and decomposition products

- The product is stable under normal conditions.

Dangerous reactions

- NA

Storage conditions

- Storage at room temperature in cool and well-ventilated places, away from sources of heat or ignition.

Incompatible materials

- Strong oxidizing substances.

7.3. Specific end use(s)

See section 1 or exposure scenario.

S8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Control parameters	NA
DNEL	NA
PNEC	NA

8.2. Exposure controls

- Good local exhaust ventilation when processing hot product.
- Avoid contact with molten product and inhalation of vapors.

Individual protection measures, such as personal protective equipment

Respiratory protection

- Respiratory protective mask when melted product vapors are present.

Skin protection

- Gloves and appropriate clothing to avoid contact.

Eye/face protection

- Safety goggles when handling the molten/heated product to avoid splashes.

Other protective equipment

- Showers and eye-washers in the work area.

Specific hygiene measures

- Good work practices and the adoption of good personal hygiene measures reduce unnecessary exposures. Showers should be used.
- Use soap and no other solvents. Use skin reconditioning cream after work.

Medical Conditions Aggravated by Exposure

- People with respiratory problems, skin and allergies are more sensitive to exposure to this product.

Environmental exposure controls

- Product should not reach the environment through wastewater or sewage.
- Measures to take in case of accidental release can be found in Section 6 of this MSDS.

S9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Solid
Odour	Odorless
Odour threshold	NA
Colour	NA
pH	NA
Melting point/freezing point	NA
Initial boiling point and boiling range	NA
Flash point	NA

Evaporation rate	NA
Flammability (solid, gas)	NA
Upper/lower flammability or explosive limits	NA
Vapour pressure	NA
Vapour density	NA
Density	0.94 g/cm ³
Solubility(ies)	Water solubility: In organic solvents
Partition coefficient n-octanol/water	NA
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity	NA
Explosive properties	NA
Oxidising properties	NA

9.2. Other information

Water solubility	Insoluble
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S10	STABILITY AND REACTIVITY
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10.1. Reactivity

NA

10.2. Chemical stability

Stable material at room temperature, though it may rust.

10.3 Possibility of hazardous reactions

Strong oxidizing substances.

10.4. Conditions to avoid

High temperatures.

10.5. Incompatible materials

NA

10.6. Hazardous decomposition products

The decomposition products from this material may include carbon dioxide, carbon monoxide, aldehydes, ketones, hydrocarbons and particles.

S11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

The provided toxicological information results from the application of Annexes VII to XI of Regulation 1907/2006 (REACH).

Acute toxicity	NA
Skin corrosion/irritation	NA
Serious eye damage/irritation	NA
Respiratory or skin sensitisation	NA
Germ cell mutagenicity	NA
Carcinogenicity	IARC classification: Group 3 (The product is not classifiable as to its carcinogenicity to humans). Product rating corresponds to the comparison of the results from the toxicological studies with the criteria set out in Regulation (EC) No 1272/2008 for CMR, categories 1A and 1B.
Reproductive toxicity	There are no data
STOT-single exposure	NA
STOT-repeated exposure	NA
Aspiration hazard	NA

S12 ECOLOGICAL INFORMATION

12.1. Toxicity

There are no data.

12.2. Persistence and degradability

The product has long hydrocarbon insoluble chains, which makes biodegradation easy. Not easily removed from water or soil and has a high persistence in the environment.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely because of its chemical structure having high molecular weight chains.

12.4. Mobility in soil

NA

12.5. Results of PBT and vPvB assessment

The substance do not meet all the specific criteria detailed in Annex XIII or do not allow a direct comparison with all the criteria in Annex XIII but nevertheless indicate that the substance would not have all these properties and the substance is not considered PBT/vPvB.

12.6. Other adverse effects

NA

S13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal

- Recycle material when possible.
- Send it to authorized waste or controlled incineration facilities.
- Consult with authorized agencies. Energy Recovery (oven, heat generation).

Handling

- Labeled and sealed containers.

Provisions

- Establishments and companies which recover, dispose, store, transport or handle waste should comply with Dir. 2008/98/EC on waste, or other local, national or community provisions.

S14 TRANSPORT INFORMATION

14.1. UN number

NA

14.2. UN proper shipping name

NA

14.3. Danger identification number

NA

14.4. Packing group

ADR/RID	NA
IATA-DGR	NA
IMDG	NA

14.5. Environmental hazards

ADR/RID	NA
IATA-DGR	NA
IMDG	NA

14.6. Transport in bulk in accordance with appendix II of the Marpol agreement 73/78 and the IBC code

No category assigned for the IBC code.

14.7. Special precautions for user

- Stable at room temperature during transport.
- To avoid spills, transport in secure, properly sealed and labeled containers.

S15	REGULATORY INFORMATION
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Commission regulation (EU) no 453/2010 : requirements for the compilation of safety data sheets

- Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
- Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (CLP).
- Regulation (EC) No 1907/2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
- OSHA Hazard Communication Standard 29FR 1910.1200.
- European Agreement concerning the international carriage of dangerous goods by road (ADR).
- Regulation on the international transport of dangerous goods on the railway (RID).
- International maritime code of dangerous goods (IMDG).
- International Air Transport Association (IATA) regulation pertaining to air shipment.
- International Bulk Chemical Code (IBC Code), MARPOL 73/78.

Commission Regulation Other hazards

- 1,3-butadiene-styrene copolymer is listed in TSCA Chemical Inventory.
- Article 19g(5) Federal Water Management Act (WHG) of 17 May 1999 (amended in July 2005): Our products are classified into the Water Hazard Class WGK 1.
- HMIS Hazard Class. Health: 0. Flammability: 1. Physical Hazards: 0.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

Glossary

CAS	Chemical Abstract Service.
IARC	International Agency for Research on Cancer.
ACGIH	American Conference of Governmental Industrial Hygienists.
TLV	Threshold Limit Value.
TWA	Time Weighted Average.
STEL	Short-term Exposure Level.
REL	Recommendable Exposure Limit.
PEL	Permissible Exposure Limit.
INSHT	Instituto Nacional de Seguridad e Higiene en el Trabajo.
VLA-ED	Environmental limit value - daily exposure.
VLA-EC	Limit environmental value - short exposure.
DNEL/DMEL	Derived no-effect level / Derivation of minimal effects levels.
PNEC	Predicted No Effect Concentration.
LD50	Lethal Dose Medium.
LC50	Lethal Concentration Medium.
EC50	Effective Concentration Medium.
IC50	Inhibitory Concentration Medium.
BOD	Biological Oxygen Demand.
NOAEL	No observable adverse effect level.
NOEL	No observed effect level.
NOAEC	No observed adverse effect concentration.
NOEC	No observed effect concentration.
NA	Not applicable.
I	Changes from the last revision.

Data Bases consulted

EINECS	European Inventory of Existing Commercial Substances.
TSCA	Toxic Substances Control Act, US Environmental Protection Agency.
HSDB	US National Library of Medicine.
RTECS	US Dept. of Health & Human Services.

Hazard Class-and-Category shown in the document

NA

- Purchasing companies have an obligation to ensure that their employees are properly trained on the safe handling and use of the product in accordance with the guidelines contained in this MSDS.
- Furthermore, companies purchasing this product are required to inform their employees, and individuals who could manipulate or use it within their facilities, about all indications included in the MSDS, in particular those relating to the product's risks to the health and safety of people and to the environment.

Aclaration

The information given in this document has been compiled based on the best existing information sources, latest available knowledge and according to the current requirements on classification, packaging and labelling of hazardous substances. It does not imply the information is exhaustive or accurate in all cases. It is the user's responsibility to determine the validity of the information contained in this Material Safety Data Sheet to apply depending on the case.