



MULTIPLIED PERFORMANCE

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Product Safety Sheet

The document drafted on a voluntary basis is not required under Article 31 of Regulation (EC) No 1907/2006 and subsequent amendments

Printing date 01.11.2023

Version number 3 (replaces version 2)

Revision: 01.11.2023

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

1.1 Product identifier

Trade name:	Europrene K SOL
Registration number	Not applicable
Chemical name	Styrene-Butadiene copolymer polymerized in solution (S-SBR)

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

Application of the substance / the mixture	Production of various rubber final applications.
Uses advised against	Not determined.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:	LOTTE VERSALIS ELASTOMERS Co., Ltd 51, Lotte Tower, Boramae-ro 5-gil, Dongjak-Gu 07071 Seoul, South Korea Phone: +82 61 690 2590
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E-mail address of the competent person responsible for the SDS:

e-mail: SDS.LVE@lvelastomers.com

1.4 Emergency telephone number:

EU-wide emergency number 112

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* SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Based on the requirements of the CLP Regulation, the product is not classified.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

Not applicable

Signal word

Not applicable

Hazard statements

Not applicable

Not applicable

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

This substance / mixture is not a PBT applying the criteria of REACH Regulation, Annex XIII.

vPvB:

This substance / mixture is not a vPvB applying the criteria of REACH Regulation, Annex XIII.

Determination of endocrine-disrupting properties

The mixture does not contain one or more substances with endocrine-disrupting properties at a concentration of 0.1% or more

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Mixture, composed of a copolymer and of substances below the applicable classification limits or not hazardous.

Copolymer: Styrene-Butadiene, CAS: 9003-55-8

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Dangerous components:

Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

No special measures required.

After inhalation:

Dust or gas/vapours released by heat: move the affected person away from the contaminated area into fresh air; seek medical assistance.

After skin contact:

In case of contact with melted material, cool down with cold water and seek medical assistance. Do not remove the product that solidified on skin. Treat as a burn.

After eye contact:

Rinse opened eye for several minutes under running water.

After swallowing:

Not applicable.

4.2 Most important symptoms and effects, both acute and delayed

Dust or gas/vapours released by heat: irritation of the respiratory organs. Eyes reddening.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Water, water spray, foam, dry chemicals, carbon dioxide.

For safety reasons unsuitable extinguishing agents:

Not applicable.

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5.2 Special hazards arising from the

substance or mixture

Combustion products: carbon dioxide, carbon monoxide (when starved of air / oxygen), and possible unburned hydrocarbons.
Overheating/pyrolysis may evolve vapours made up of monomers, low molecular weight polymers and their oxidation products.

5.3 Advice for firefighters

Protective equipment:

Wear suitable protective clothing (helmet, goggles, fire resistant gloves, boots) and protect respiratory organs (self contained breathing apparatus).

Additional information

The product is combustible.

Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

6.2 Environmental precautions:

No special measures required.

6.3 Methods and material for containment and cleaning up:

Collect mechanically. Reuse if possible or dispose of as required by national and local regulations (see section 13).

6.4 Reference to other sections

No dangerous substances are released.

For information on disposal of contaminated material, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

During the processing of the product, avoid inhalation of fumes or powders, by providing good ventilation of the workroom and, if necessary, by a suitable exhaust system.

Information about fire - and explosion protection:

The product is a poor conductor and it is likely to accumulate electrostatic charges. Precautions normally used for not conductive materials and against

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the accumulation of electrostatic charges should be used during processes which employ powdered materials or produce dust (e.g.: reduce speed to the minimum, install earthing systems, the absolute prohibition to smoke and use free flames, use inert gases in mills and in the closed systems).

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store the product in a covered place in its sealed packaging, away from direct sunlight and heat sources.

Ensure the proper ventilation in all storage areas.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Protect from heat and direct sunlight.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Appropriate engineering controls

No further data; see item 7.

General protective and hygienic measures:

Traces of monomers and other volatile substances may be given off during processing, particularly at unusually high processing temperatures. Work rooms must be provided with adequate ventilation and exhaust equipment to collect dust and gas/vapours that may be evolved during the conversion.

Suitable technical controls

Ensure good ventilation / exhaustion at the workplace.

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Personal protection measures	The personal protective equipment will vary according to the possible exposure and danger of working conditions.
Respiratory protection:	In normal conditions masks with antidust filters should be available for use when requested.
Protection of skin	
Hand protection	Protective gloves
Eye/face protection	Safety glasses
Other:	Standard work clothes.
Thermal dangers	No information available
Environmental exposure controls	No information available.

* SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Solid
Form:	Bales
Colour:	Clear
Odour:	Light
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Ignition temperature:	>300 °C
Decomposition temperature:	>200 °C
pH	Not applicable.

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Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water:	Insoluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	0.93 g/cm ³
Relative density	Not determined.
Vapour density	Not applicable.
Relative gas density	Not applicable.
Particle characteristics	Not determined.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties:	Product does not present an explosion hazard.
Explosives	Not applicable
Flammable gases	Not applicable
Aerosols	Not applicable
Oxidising gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not applicable
Flammable solids	Not applicable
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not applicable
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Not applicable
Substances and mixtures, which emit flammable gases in contact with water	Not applicable
Oxidising liquids	Not applicable
Oxidising solids	Not applicable

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Organic peroxides	Not applicable
Corrosive to metals	Not applicable
Desensitised explosives	Not applicable
9.2.2 Other safety characteristics	Not determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not participate to dangerous reactions if stored and handled as prescribed/indicated

10.2 Chemical stability

Thermal decomposition:

Observe the recommended processing temperatures.
The product is stable and inert in the recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Exposure to sunlight and/or heat. Buildup of electrostatic charges.

10.5 Incompatible materials:

Avoid the contact with oxidising substances.

10.6 Hazardous decomposition products:

No dangerous decomposition products known.

* SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	The product's dust may cause irritation of eyes.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.

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STOT-repeated exposure

Aspiration hazard

Additional toxicological information:

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

The product does not present any intrinsic health hazard when processed according to correct working procedures.

Specific information on the product is not available in the literature. Residual monomers may be present in the product at trace levels, hindered in the polymer matrix and therefore not available in normal conditions.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

No evidence of these effects has been reported.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The mixture does not contain one or more substances with endocrine-disrupting properties at a concentration of 0.1% or more

11.2.2 Other information

Not determined.

* SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

The product is essentially a high molecular weight polymer, not regarded as ecotoxic.

12.2 Persistence and degradability

The product is a non biodegradable polymer.

12.3 Bioaccumulative potential

Does not accumulate in organisms

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT:

This substance / mixture is not a PBT applying the criteria of REACH Regulation, Annex XIII.

vPvB:

This substance / mixture is not a vPvB applying the criteria of REACH Regulation, Annex XIII.

12.6 Endocrine disrupting properties

The mixture does not contain one or more substances with endocrine-disrupting properties at a concentration of 0.1% or more

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12.7 Other adverse effects

Other information:

No further relevant information available.

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General notes:

Use according to good working practice, and avoid releasing the product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

The same safety considerations that apply to the product as it is, apply to scraps/waste as well.
Residues should be disposed of as required by national and local regulations.
The incineration must be done under approved conditions, possibly with energy recovery and only at suitable facilities equipped with a scrubber for the treatment of fumes before their release into the atmosphere.
Landfilling should be avoided as far as possible. If unavoidable, use approved landfill sites.

Uncleaned packaging:

Recommendation:

Recommended cleansing agents:

Disposal must be made according to official regulations.

Not applicable.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN, ADN, IMDG, IATA

Not applicable

14.2 UN proper shipping name

ADR/RID/ADN, ADN, IMDG, IATA

Not applicable

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14.3 Transport hazard class(es)

ADR/RID/ADN, ADN, IMDG, IATA
Class

Not applicable

14.4 Packing group

ADR/RID/ADN, IMDG, IATA

Not applicable

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

IATA

MARPOL:

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I

None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

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REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.
Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.
Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

National regulations:	Not applicable
Regulations of the European Union	Not applicable
15.2 Chemical safety assessment:	Assesment not required.

SECTION 16: Other information

Department issuing SDS:	IMS/PM Dept.
Date of previous version:	01.11.2023
Version number of previous version:	2
Abbreviations and acronyms:	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.

Data and information contained in this Safety Data Sheet are based on our available knowledge at the last revision date. No guarantee can be given as to the sufficiency of any safety measures contained in this Safety Data Sheet, nor can it be assumed that other or additional measures may not be required under particular or exceptional circumstances. The user must make sure of the fitness and completeness of the information, according to the specific use they want to do.