



MULTIPLIED PERFORMANCE

Printing date 14.03.2022

Revision: 14.03.2022

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 Korea Phone: +82 2 840 3662
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E-mail address of the competent person responsible for the SDS:	e-mail: SDS.LVE@lvelastomers.comv
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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.
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2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008	Not applicable
Hazard pictograms	Not applicable
Signal word	Not applicable
Hazard statements	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.

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SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Polymer

Description: Mixture, composed of a copolymer and of substances below the applicable classification limits or not hazardous.
Copolymer: styrene-butadiene, CAS: 9003-55-8.

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.

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.

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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.

Handling:

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 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

Additional information about design of technical facilities:

No further data; see item 7.

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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

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
Personal protection measures

Ensure good ventilation / exhaustion at the workplace.
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
Protection of hands:
Eye/face protection:
Other:
Thermal dangers
Limitation and supervision of exposure into the environment

Protective gloves
Safety glasses
Standard work clothes.
No information available
No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Bales
Colour:	Clear
Odour:	Light
Odour threshold:	Not determined.

pH-value: Not applicable.

Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

Flash point: Not applicable.

Flammability (solid, gas): Not determined.

Ignition temperature: >300 °C

Decomposition temperature: >200 °C

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Explosive properties: Product does not present an explosion hazard.

Explosion limits:
Lower: Not determined.
Upper: Not determined.

Vapour pressure: Not applicable.

Density at 20 °C: 0.93 g/cm³
Relative density: Not determined.
Vapour density: Not applicable.
Evaporation rate: Not applicable.

Solubility in / Miscibility with water: Insoluble.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:
Dynamic: Not applicable.
Kinematic: Not applicable.

9.2 Other information No further relevant information available.

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 toxicological effects

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

Primary irritant effect 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.

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Additional toxicological information:

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 (carcinogenity, mutagenicity and toxicity for reproduction)

No evidence of these effects has been reported.

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.

STOT-repeated exposure

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

Aspiration hazard

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

*** 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.

General notes:

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

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 Other adverse effects

No further relevant information available.

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:

Disposal must be made according to official regulations.

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Recommended cleansing agents: Not applicable.

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SECTION 14: Transport information

14.1 UN-Number

ADR/RID/ADN, ADN, IMDG, IATA Not applicable

14.2 UN proper shipping name

ADR/RID/ADN, ADN, IMDG, IATA Not applicable

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 Transport in bulk according to Annex II of
Marpol and the IBC Code** 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

National regulations: Not applicable
Regulations of the European Union Not applicable

* SECTION 16: Other information

Department issuing SDS:

HSE
SRBS/CESP

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.