

Safety Data Sheet

Printing date 02/20/2018

Reviewed on 02/20/2018

1 Identification

• **Product identifier**

- Trade name:
- Chemical description
- Application of the substance / the mixture
- Uses advised against

EUOPRENE SOL TH

STYRENE-ETHYLENE-BUTYLENE COPOLYMER (SEBS)

Production of various rubber final applications.

Not determined.

• **Details of the supplier of the safety data sheet**

- Manufacturer/Supplier:

versalis S.p.A.
Piazza Boldrini, 1
I-20097 San Donato Milanese (MI)
N° telefono: +39 02 520 1

- Information department:
- Emergency telephone number:

e-mail: SDS.versalis@versalis.eni.com
S.E.T. (24h): Italia 800452661; altri paesi +39 (0)362512868.

2 Hazard(s) identification

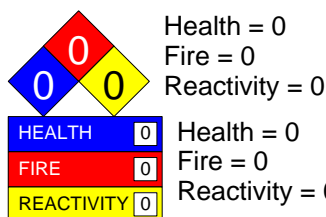
• **Classification of the substance or mixture**

The product is not classified, according to the Globally Harmonized System (GHS).

• **Label elements**

- Hazard pictograms
- Signal word
- Hazard statements
- **Classification system:**
- NFPA ratings (scale 0 - 4)

Not applicable
Not applicable
Not applicable



- HMIS-ratings (scale 0 - 4)

• **Other hazards**

- Results of PBT and vPvB assessment
- PBT:
- vPvB:

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

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

3 Composition/information on ingredients

• **Chemical characterization: Mixtures**

- Description:

Mixture, composed of a polymer and of substances below the applicable classification limits or not dangerous.
Polymer: styrene-butadiene hydrogenated, CAS: 66070-58-4.

- Dangerous components:

Not applicable

4 First-aid measures

• **Description of first aid measures**

- General information:
- After inhalation:

No special measures required.
Dust or gas/vapours released by heat: move the affected person away from the contaminated area into fresh air; seek medical assistance.

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- 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: No specific measure requested in case of ingestion. If needed seek medical assistance.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed: Dust or gas/vapours released by heat: irritation of the respiratory organs. Eyes reddening.
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- Suitable extinguishing agents: Water, water spray, foam, dry chemicals, carbon dioxide.
- For safety reasons unsuitable extinguishing agents: Not applicable.
- **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.
- **Advice for firefighters**
- Protective equipment: Utilizzare adeguato equipaggiamento protettivo individuale (autorespiratore, elmetto, occhiali protettivi, tuta, guanti e stivali ignifughi).
- **Additional information**
The product is combustible.
Cool endangered receptacles with water spray.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Do not walk on granules to avoid slipping.
Wear protective equipment. Keep unprotected persons away.
No special measures required.
- **Environmental precautions:**
- **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).
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
For information on disposal of contaminated material, see section 13.
- **Protective Action Criteria for Chemicals**

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| · PAC-1: | |
| | None of the ingredients is listed. |

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· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

7 Handling and storage

· Handling:

- 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.

Comply with personal hygiene measures and use the personal protective equipment (see chapter 8). Do not smoke, eat or drink in the workplace. Re-seal opened containers.

Use gloves and safety glasses. Avoid contact with sources of ignition. Elevated processing temperatures may result in some degree of thermal degradation: as a guideline 250°C is the maximum allowed temperature for very short time.

- Information about protection against explosions and fires:

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).

· 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:

If the product undergoes to a prolonged exposure to sunlight and/or heat, it may degrade and cause self-combustion phenomena. In particular, avoid prolonged exposure of the product to temperature above 70° C for 10 days, that may lead to degradation causing self-heating reactions till self-combustion.

· Specific end use(s)

No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems:

No further data; see item 7.

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• **Control parameters**

- Components 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.

• **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

Ensure good ventilation / exhaust at the workplace.

- Breathing equipment:

In normal conditions masks with antidust filters should be available for use when requested.

- Protection of hands:

Protective gloves

- Eye protection:

Not necessary when no powders or vapours are present. Where present, wear suitable protective glasses.

- Body protection:

Standard work clothes.

- **Limitation and supervision of exposure into the environment**

No information available.

9 Physical and chemical properties

• **Information on basic physical and chemical properties**

- General Information

- Appearance:

Form:

Granulate

Color:

White

- Odor:

Odorless

- Odor threshold:

Not determined.

- pH-value:

Not applicable.

- Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

Undetermined.

- Flash point:

Not applicable.

- Flammability (solid, gaseous):

Not determined.

- Ignition temperature:

> 400 °C (>752 °F)

- Decomposition temperature:

Not determined.

- Auto igniting:

Product is not selfigniting.

- Danger of explosion:

Product does not present an explosion hazard.

- Explosion limits:

Lower:

Not determined.

Upper:

Not determined.

- Vapor pressure:

Not applicable.

- Density at 20 °C (68 °F):

0.93-0.94 g/cm³ (7.76-7.84 lbs/gal)

- Bulk density at 20 °C (68 °F):

200-400 kg/m³

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- Relative density: Not determined.
- Vapor 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.
- **Other information**: No further relevant information available.

10 Stability and reactivity

- **Reactivity**: The product does not participate to dangerous reactions if stored and handled as prescribed/indicated
- Chemical stability
- Thermal decomposition / conditions to be avoided: The product is stable and inert in the recommended storage and handling conditions (see section 7).
- **Possibility of hazardous reactions**: No dangerous reactions known.
- **Conditions to avoid**: Exposure to sunlight and/or heat. Buildup of electrostatic charges.
- **Incompatible materials**: Avoid the contact with oxidising substances.
- **Hazardous decomposition products**: No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- Acute toxicity:
- Primary irritant effect:
 - on the eye: The product's dust may cause irritation of eyes.
- 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. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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|---------------------------------------------------------|
| · IARC (International Agency for Research on Cancer) |
| None of the ingredients is listed. |
| · NTP (National Toxicology Program) |
| None of the ingredients is listed. |
| · OSHA-Ca (Occupational Safety & Health Administration) |
| None of the ingredients is listed. |

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12 Ecological information

- **Toxicity**
- Aquatic toxicity: No further relevant information available.
- **Persistence and degradability**
 - The product is essentially a high molecular weight polymer, not regarded as ecotoxic.
- Other information: The product is a non biodegradable polymer.
- Bioaccumulative potential: Does not accumulate in organisms
- Mobility in soil: No further relevant information available.
- **Additional ecological information:**
- General notes: Use according to good working practice, and avoid releasing the product into the environment.
Generally not hazardous for water
- **Other adverse effects**
 - No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- Recommendation:
 - The same safety considerations that apply to 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.
 - After suitable treatment (cleaning, grinding, etc.), the product can be safely re-used, as is or mixed with fresh material, when this is compatible with the intended final application.
 - Landfilling should be avoided as far as possible. If unavoidable, use approved landfill sites.
- **Uncleaned packagings:**
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Not applicable.

14 Transport information

- **UN-Number**
- DOT, ADR/RID/ADN, ADN, IMDG, IATA: Void
- **UN proper shipping name**
- DOT, ADR/RID/ADN, ADN, IMDG, IATA: Void
- **Transport hazard class(es)**
- DOT, ADR/RID/ADN, ADN, IMDG, IATA: Void
- Class: Void
- **Packing group**
- DOT, ADR/RID/ADN, IMDG, IATA: Void
- **Environmental hazards:**
- Marine pollutant: No
- **Special precautions for user**: Not applicable.

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- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:** The product is not classified as dangerous for transportation according to the following regulations: ADR/RID, IMO, IATA.
- **UN "Model Regulation":** Void

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture** No further relevant information available.
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| · Section 355 (extremely hazardous substances): | None of the ingredients is listed. |
| · Section 313 (Specific toxic chemical listings): | None of the ingredients is listed. |
| · TSCA (Toxic Substances Control Act): | All ingredients are listed. |
| · Proposition 65 | |
| · Chemicals known to cause cancer: | None of the ingredients is listed. |
| · Chemicals known to cause reproductive toxicity for females: | None of the ingredients is listed. |
| · Chemicals known to cause reproductive toxicity for males: | None of the ingredients is listed. |
| · Chemicals known to cause developmental toxicity: | None of the ingredients is listed. |
| · Carcinogenic categories | |
| · EPA (Environmental Protection Agency) | None of the ingredients is listed. |
| · TLV (Threshold Limit Value established by ACGIH) | None of the ingredients is listed. |
| · NIOSH-Ca (National Institute for Occupational Safety and Health) | None of the ingredients is listed. |

- National regulations: Not applicable
- **Chemical safety assessment:** Assesment not required.

16 Other information

- **Department issuing SDS:** QHSE/PRST
- Date of preparation / last revision: 02/20/2018 / -

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· Abbreviations and acronyms:

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ADR: Accord européen sur le transport 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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

· * 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.