

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name:	<b>EDISTIR HIPS</b>
Registration number	N.A.
Chemical name	STYRENE-BUTADIENE COPOLYMER
(e-)SDS code	1788

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

Application of the substance / the mixture	No further relevant information available. Production of various plastic final applications.
Uses advised against	N.A.

**1.3 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
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E-mail address of the competent person responsible for the SDS:	e-mail: SDS.versalis@versalis.eni.com
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<b>1.4 Emergency telephone number:</b>	Centro Nazionale di Informazione Tossicologica (24h): (+39) 0382 24444
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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008	The substance is not classified according to the CLP regulation.
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Classification according to Directive 67/548/EEC or Directive 1999/45/EC	The preparation is not classified as dangerous according to Directive 1999/45/EC and following amendments.
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Information concerning particular hazards for human and environment:	The product is not hazardous in the form in which it is placed on the market. See also sections 4 and 11. The preparation is stable under normal conditions of storage and use. It is not hazardous to the environment in its normal state.
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**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008	Void
Hazard pictograms	Void
Signal word	Void
Hazard statements	Void

**2.3 Other hazards**

Results of PBT and vPvB assessment	
PBT:	This substance / mixture does not meet the criteria for PBT REACH Regulation, Annex XIII.
vPvB:	This substance / mixture does not meet the vPvB criteria of REACH, annex XIII

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**SECTION 3: Composition/information on ingredients****3.1 Substances**

CAS No. Description	9003-55-8 STYRENE-BUTADIENE COPOLYMER (HIPS)
Identification number(s)	N.A.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General information:	Immediately remove any clothing soiled by the product. 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:	No specific measure requested in case of ingestion. If needed seek medical assistance.

**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:	N.A.

**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 evolves 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**

Do not walk on granules to avoid slipping.

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**6.2 Environmental precautions:**

Wear protective equipment. Keep unprotected persons away.

**6.3 Methods and material for containment and cleaning up:**

No special measures required.

**6.4 Reference to other sections**

Pick up mechanically.

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.

**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.

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.

No special measures required.

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).

General recommendations on workplace hygiene

Apply the normal personal hygiene measures, in particular do not eat, drink or smoke while handling.

**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.

Earth storage silos as precautionary measure against the static electricity build-up.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Product should be stored in a safe manner, to avoid danger from unstable or damaged packaging units (octabins/bags/boxes on pallet). In particular, stacking of packaged units can be dangerous to warehouse personnel.

**7.3 Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

Additional information about design of technical facilities:

No further data; see item 7.

**8.1 Control parameters**

Ingredients with limit values that require monitoring at the workplace:

Not required.

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Additional information:

The lists valid during the making were used as basis.

**8.2 Exposure controls**

Personal protective equipment:

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.

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

Protection of hands:

Protective gloves

Eye/face protection:

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

Other:

Standard work clothes.

Thermal dangers

No information available

Limitation and supervision of exposure into the environment

No information available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

General Information

Appearance:

Form:

Granulate

Colour:

White

Odour:

Odourless

Odour threshold:

Not determined.

pH-value:

Not applicable.

Change in condition

Melting point/Melting range:

&gt;94 °C

Boiling point/Boiling range:

Undetermined.

Flash point:

Not applicable.

Flammability (solid, gaseous):

Product is not flammable.

Ignition temperature:

&gt;300 °C

Decomposition temperature:

Not determined.

Self-igniting:

Product is not selfigniting.

Danger of explosion:

Product does not present an explosion hazard.

Explosion limits:

Lower:

Not determined.

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Upper:	Not determined.
Vapour pressure:	Not applicable.
Density at 20 °C:	1.04 g/cm <sup>3</sup>
Bulk density at 20 °C:	650 kg/m <sup>3</sup>
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.
Organic solvents:	0.0 %
Solids content:	100.0 %
<b>9.2 Other information</b>	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 / conditions to be avoided: Exposure to sunlight and/or heat. Accumulation of electrostatic charges. Prevent the formation of noxious gases and vapours by using the advised conversion conditions. Stable in the normal storage conditions.

**10.3 Possibility of hazardous reactions**

No dangerous reactions known.

**10.4 Conditions to avoid**

No further relevant information available.

**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:

Primary irritant effect:

on the skin:

No irritant effect.

on the eye:

The product's dust may cause irritation of eyes.

Sensitization:

No sensitizing effects known.

Additional toxicological information:

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

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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 to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

No evidence of these effects has been reported.

**SECTION 12: Ecological information****12.1 Toxicity**

Aquatic toxicity:

No further relevant information available.

**12.2 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.

**12.3 Bioaccumulative potential**

Does not accumulate in organisms

**12.4 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

**12.5 Results of PBT and vPvB assessment**

PBT:

This substance / mixture does not meet the criteria for PBT REACH Regulation, Annex XIII.

vPvB:

This substance / mixture does not meet the vPvB criteria of REACH, Annex XIII.

**12.6 Other adverse effects**

No further relevant information available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Residues should be disposed of as required by national and local regulations.

Recommendation

The same safety considerations that apply to the product as it is, apply to scraps/waste as well.

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.

Smaller quantities can be disposed of with household waste.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Recommended cleansing agents:

Not applicable.

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Water, if necessary together with cleansing agents.

**SECTION 14: Transport information****14.1 UN-Number**

ADR, ADN, IMDG, IATA Void

**14.2 UN proper shipping name**

ADR, ADN, IMDG, IATA Void

**14.3 Transport hazard class(es)**

ADR

Class - (-)

ADN/R Class: Void

IATA

Class Void

Label -

**14.4 Packing group**

ADR, IMDG, IATA Void

**14.5 Environmental hazards:**

Marine pollutant: No

**14.6 Special precautions for user** Not applicable.

Danger code (Kemler): -

**14.7 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.

IATA

MARPOL: N.A.

UN "Model Regulation": UN-, -

**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

**15.2 Chemical safety assessment:** Assessment not required.**SECTION 16: Other information**

Department issuing MSDS:

Abbreviations and acronyms:

QHSE/NOCE

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

\* 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

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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.

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