

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

Trade name:	KOSTIL B
Registration number	N.A.
Chemical name	STYRENE-ACRYLONITRILE COPOLYMER (SAN)
(e-)SDS code	1848

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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1.4 Emergency telephone number:	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

(Contd. on page 2)

Trade name: KOSTIL B

(Contd. of page 1)

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

CAS No. Description	9003-54-7 STYRENE-ACRYLONITRILE COPOLYMER
Identification number(s)	N.A.

*** 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. No effect expected by contact with the product at room temperature.
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

The product when involved in a fire, burns with a sooty flame and release fumes made up of water, carbon dioxide, carbon monoxide (when starved of oxygen), nitrogen and nitrogen compounds (possible traces of hydrogen cyanide when starved of oxygen) and other combustion products.
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.

(Contd. on page 3)

**Trade name: KOSTIL B**

(Contd. of page 2)

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Do not walk on granules to avoid slipping.
Wear protective equipment. Keep unprotected persons away.

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.
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**

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

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.

Powder formation by abrasion must be avoided during handling and transportation, especially when unloading; if such formation occurs, the powder must be eliminated immediately.

Information about fire - and explosion protection: Avoid dispersion of dust in air to reduce potential for ignition or explosion.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: 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:

In storage and working areas avoid pellets spilling as a possible cause of slipping.

Store out of direct sunlight, in well ventilated, cool and dry place.

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.

(Contd. on page 4)

Trade name: KOSTIL B

(Contd. of page 3)

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

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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:	Colourless
Odour:	Odourless
Odour threshold:	Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range:	>108 °C
Boiling point/Boiling range:	Undetermined.

Flash point: Not applicable.

Flammability (solid, gaseous): Product is not flammable.

Ignition temperature: >450 °C

Decomposition temperature: Not determined.

Self-igniting: Not determined.

Danger of explosion: Product does not present an explosion hazard.

(Contd. on page 5)

Trade name: KOSTIL B

(Contd. of page 4)

Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density at 20 °C:	1.07 g/cm ³
Bulk density at 20 °C:	~660 kg/m ³
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****10.2 Chemical stability**

Thermal decomposition / conditions to be avoided: Prevent the formation of noxious gases and vapours by using the advised conversion 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:

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.

(Contd. on page 6)

Trade name: KOSTIL B

(Contd. of page 5)

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.

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**

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.

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.

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.

Recommended cleansing agents:

Not applicable.

*** 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, ADN, IMDG, IATA

Class

Void

(Contd. on page 7)

**Trade name: KOSTIL B**

(Contd. of page 6)

14.4 Packing group

ADR, IMDG, IATA

Void

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 MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

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:

QHSE/NOCE

Abbreviations and acronyms:

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 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.