

# Safety Data Sheet

Printing date 20.01.2017

Revision: 20.01.2017

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

### 1.1 Product identifier

- Trade name: **SINKRAL**
- Registration number: Not applicable.
- Chemical name: ACRYLONITRILE-BUTADIENE-STYRENE COPOLYMER (ABS)
- (e-)SDS code: 1874

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

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

### 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

- E-mail address of the competent person responsible for the SDS:

e-mail: SDS.versalis@versalis.eni.com

### 1.4 Emergency telephone number:

CNIT - Centro Nazionale di Informazione Tossicologica (24h):  
(+39) 0382 24444

## 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: 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterisation: Mixtures

- Description: Mixture, composed of a copolymer and of substances below the applicable classification limits or not dangerous.  
Copolymer: Acrylonitrile-Butadiene-Styrene, CAS: 9003-56-9.
- Dangerous components: Not applicable

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General information: No special measures required.

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- 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: No effect expected by contact with the product at room temperature.  
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: Not applicable.
- **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.
- **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.
- **6.2 Environmental precautions:** Do not discharge in the drains.
- **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.

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

Avoid dispersion of dust in air to reduce potential for ignition or explosion.
- 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:
 

Earth storage silos as precautionary measure against the static electricity build-up.
  - Requirements to be met by storerooms and receptacles:
 

Not required.
  - Information about storage in one common storage facility:
 

Store out of direct sunlight, in well ventilated, cool and dry place. In storage and working areas avoid pellets spilling as a possible cause of slipping.  
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.
  - Further information about storage conditions:
 

Keep away from sources of ignition, heat and sparks and from flammable products.
- **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:
 

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
 

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.

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- (Contd. from page 3)
- 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.
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### \* 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/freezing point: 103-107 °C
  - Initial boiling point and boiling range: Undetermined.
- Flash point: Not applicable.
- Flammability (solid, gas): Not determined.
- Ignition temperature:
  - Decomposition temperature: > 300 °C
- 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: 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.
- Viscosity:
  - Dynamic: Not applicable.
  - Kinematic: Not applicable.
- 9.2 Other information: No further relevant information available.

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## 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: The product is stable and inert in the recommended storage and handling conditions (see section 7). 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** 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 The product's dust may cause irritation of eyes.
  - Serious eye damage/irritation Based on available data, the classification criteria are not met.
  - Respiratory or skin sensitisation The product does not present any intrinsic health hazard when processed according to correct working procedures.
  - Additional toxicological information: 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.
- 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: No further relevant information available.
- **12.2 Persistence and degradability**
  - The product is essentially a high molecular weight polymer, not regarded as ecotoxic.
  - 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.
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· **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.

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 packaging:

· Recommendation:

· Recommended cleansing agents:

Disposal must be made according to official regulations.

Not applicable.

## \* SECTION 14: Transport information

· **14.1 UN-Number**

· ADR/RID, ADN, IMDG, IATA

Not applicable

· **14.2 UN proper shipping name**

· ADR/RID, ADN, IMDG, IATA

Not applicable

· **14.3 Transport hazard class(es)**

· ADR/RID, ADN, IMDG, IATA

· Class

Not applicable

· **14.4 Packing group**

· ADR/RID, 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:

The product is not classified as dangerous for transportation according to the following regulations: ADR/RID, IMO, IATA.

## \* 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

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