

Safety Data Sheet

Printing date 20.07.2015

Revision: 20.07.2015

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

1.1 Product identifier

- Trade name: **KOBLEND P**
- Registration number: N.A.
- Chemical name: High Impact Polystyrene / Polyethylene Blend
- (e-)SDS code: 1845

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.
- Uses advised against: Production of various plastic final applications.

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 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

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

- Description:

Resin mixture

- Dangerous components:

not applicable

- Additional information:

For the wording of the listed risk phrases refer to section 16.

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: 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.
- **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.

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* 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.
- 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:

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
The lists valid during the making were used as basis.
 - Additional information:
- **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
· Respiratory protection:

Ensure good ventilation / exhaust at the workplace.
The personal protective equipment will vary according to the possible exposure and danger of working conditions.
In normal conditions masks with antidust filters should be available for use when requested.

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- 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: Undetermined.
 - Boiling point/Boiling range: Undetermined.
- Flash point: > 450 °C
- Flammability (solid, gaseous): Not determined.
- Ignition temperature: > 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.
 - Upper: Not determined.
- Vapour pressure: Not applicable.
- Density at 20 °C: 0.63 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.
- Solvent content:
 - Organic solvents: 0.0 %
 - Solids content: 100.0 %

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· 9.2 Other information No further relevant information available.**SECTION 10: Stability and reactivity**

- 10.1 Reactivity** The substance / mixture does not present additional hazards related to reactivity compared to those reported in the following subtitles.
- 10.2 Chemical stability**
 - Thermal decomposition: Exposure to sunlight and/or heat. Accumulation of electrostatic charges. 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** 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:
 - Skin corrosion/irritation
 - Serious eye damage/irritation
 - Respiratory or skin sensitisation
 - Additional toxicological information:
 - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
 - Germ cell mutagenicity
 - Carcinogenicity
 - Reproductive toxicity
 - STOT-single exposure
 - STOT-repeated exposure
 - Aspiration hazard
- Based on available data, the classification criteria are not met.
The product's dust may cause irritation of eyes.
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
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.
- No evidence of these effects has been reported.
Based on available data, the classification criteria are not met.
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SECTION 12: Ecological information

- 12.1 Toxicity**
 - Aquatic toxicity:
 - 12.2 Persistence and degradability**
 - Other information:
 - 12.3 Bioaccumulative potential**
 - 12.4 Mobility in soil**
- No further relevant information available.
The product is essentially a high molecular weight polymer, not regarded as ecotoxic.
The product is a non biodegradable polymer.
Does not accumulate in organisms
No further relevant information available.

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- 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**
- Recommendation 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: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

* SECTION 14: Transport information

- **14.1 UN-Number**
- ADR, ADN, IMDG, IATA not applicable
- **14.2 UN proper shipping name**
- ADR, ADN, IMDG, IATA not applicable
- **14.3 Transport hazard class(es)**
- ADR, ADN, IMDG, IATA
- Class not applicable
- **14.4 Packing group**
- ADR, 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: N.A.

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· UN "Model Regulation": UN-, -

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*** 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. |
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*** SECTION 16: Other information**

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|-------------------------------|---|
| · Department issuing MSDS: | QHSE/PRST |
| · 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 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) |
- * 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.
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