Safety Data Sheet

Revision: 30.08.2017

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

· **1.1 Product identifier**

WINTERSTEIGER Art.No. 55-560-310, -311, -313, -315, -316, -317, -150, -151, -152, -160, -161, -106, -107, -109, -100, -104, -110, -116, -115, -340, -341,- 350, -351; / 56-601-021, -023, -002, -004; / 57-440-001, -002; / 55-100-156, 55-100-158/ 55-530-310, 55-530-320

· Trade name:
· Chemical name: LOW DENSITY POLYETHYLENE (LDPE)
· (e-)SDS code: 1939

· **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: N.A.

· **1.3 Details of the supplier of the safety data sheet**
· Manufacturer/Supplier:

Liski S.r.l.
Via Veneto, 8
I-24041 Brembate (BG)
N° telefono: +39 035 4826195

· E-mail address of the competent person responsible for the SDS: e-mail: info@liski.it
· **1.4 Emergency telephone number:**

* 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 of REACH Regulation, Annex XIII, for identification of PBT substances.
· vPvB: This substance / mixture does not meet the criteria of REACH Regulation, Annex XIII, for identification of vPvB substances.

* SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**
· Description: Mixture, composed of a polymer and of substances below the applicable classification limits or not dangerous
Polymer: Polyethylene, CAS: 9002-88-4

· 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: 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** No further relevant information available.

· **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 may evolve vapours made up of monomers, low molecular weight polymers and their oxidation products.
Powders have specific fire risks.

· **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 allow product to reach sewage system or any water course.

· **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** For information on disposal of contaminated material, see section 13.
No dangerous substances are released.

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* SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** 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 exaust system.

· 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.

· **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.

· 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: Safety glasses

· Other: Standard work clothes.

· Thermal dangers No information available

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· 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/Melting range:	>100 °C
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Ignition temperature:	~340 °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:	0.91-0.93 g/cm³
· Bulk density at 20 °C:	450-600 kg/m³
· 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:	
Solids content:	100 %
· **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: Prevent the formation of noxious gases and vapours by using the advised conversion conditions.
Prolonged exposure to temperatures above 250 °C may cause resin degradation.

· **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	Based on available data, the classification criteria are not met.
· Primary irritant effect:	
· Skin corrosion/irritation	Based on available data, the classification criteria are not met.
· Serious eye damage/irritation	Based on available data, the classification criteria are not met.
· Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)	
· 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.

· 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: 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.

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* SECTION 13: Disposal considerations

· **13.1 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.
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.

· 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,RID,ADN, ADN, IMDG, IATA: not applicable
· **14.2 UN proper shipping name**
· ADR,RID,ADN, ADN, IMDG, IATA: not applicable
· **14.3 Transport hazard class(es)**

· ADR,RID,ADN, ADN, IMDG, IATA
· Class: not applicable
· **14.4 Packing group**
· ADR,RID,ADN, IMDG, IATA: not applicable
· **14.5 Environmental hazards:** Not applicable.
· **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.
· UN "Model Regulation": not applicable

* 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 SDS: QHSE/PRST

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· 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)
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
SVHC: Substances of Very High Concern

· * 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.