

# SAFETY DATA SHEET (SDS)

## WHT-1185EC

Compilation: 11.06.2015  
Revision number: 0  
Revision: -  
Version: 1.0

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

#### 1.1. Product identifier

Substance name: **THERMOPLASTIC POLYURETHANE ELASTOMER**  
Product name: **WHT-1185EC**  
Index No: Not applicable.  
EC number: Not applicable.  
CAS number: Not applicable.  
REACH Registration number: In accordance with Article 2 (9) of REACH polymers should be exempted from the general obligation to register.  
Type of substance:  
Composition: polymer  
Origin: organic

#### 1.2. Relevant identified uses of the substance or mixture

Component for production of polyurethanes

1.2.1. **Uses advised against:** Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

Company identification:  
**Wanhua Chemical Group Co., Ltd.**  
No. 17, Tianshan Road, Yantai City, Shandong Province  
264006  
P.R. China  
Phone: +86-535-3388825/535-3388590  
Fax: +86-535-6857160  
Other comments:  
Language(s) of the phone service: English.  
E-mail: tpuserice@whchem.com

Only representative:  
**Wanhua Chemical Netherlands BV**  
Schiphol Boulevard 301  
1118 BJ Luchthaven Schiphol  
The Netherlands  
Phone: +31(0) 2020 65130  
Other comments:  
Language(s) of the phone service: English.  
E-mail of responsible person for SDS: reach@whchem.com

#### 1.4. Emergency telephone number

SGS Emergency Response Services  
Phone: +32 3 575 55 55 (International, 0-24 h)  
Other comments:  
Language of the phone service: English.

National Poisons Information Service (NPIS) (England, Wales)  
Phone: 111 (0-24 h)

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### SECTION 2 Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.1. **Classification according to Regulation 1272/2008/EC:** According to Regulation (EC) No 1272/2008 this product is not classified as dangerous substance.

2.1.2. **Classification according to Directive 67/548/EEC:** According to 67/548/EEC this product is not classified as dangerous substance.

#### 2.2. Label elements

2.2.1. **Labelling according to 1272/2008/EC:** According to Regulation (EC) No 1272/2008 this product is not labelling as dangerous substance.

2.3. **Other hazards:** The substance does not meet the criteria for persistent, bioaccumulation and toxicity (PBT) or the criteria for Very Persistent and Very Bioaccumulative (vPvB) in accordance with Annex XIII of 1907/2006/EC.

### SECTION 3 Composition/information on ingredients

#### 3.1. Substance

Chemical name	CAS number	EC number	Index number	REACH Registration number	Concentration % (w/w)
Thermoplastic polyurethane polymer	Not applicable.	Not applicable.	Not applicable	In accordance with Article 2 (9) of REACH polymers should be exempted from the general obligation to register.	100

### SECTION 4 First aid measures

#### 4.1. Description of first aid measures

**General advice:** In case of accident or if you feel unwell, seek medical advice immediately.

4.1.1. **In case of inhalation:** If symptoms are experienced, remove source of contaminated or move victim to the fresh air. If symptoms persist, get medical attention.

4.1.2. **In case of skin contact:** Wash affected areas thoroughly with soap and water. If molten polymer contacts the skin, cool the skin rapidly with water or ice. Seek medical attention.

4.1.3. **In case of eye contact:** Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention immediately.

4.1.4. **In case of ingestion:** Wash out mouth with water. Get medical aid in case of ingestion of large amounts.

4.1.5. **Information to physician:** No specific antidote, supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

4.2. **Most important symptoms and effects, both acute and delayed:** Not expected to cause any adverse acute or chronic health effects  
Processing temperatures (205°C - 220°C) may generate fumes and vapour sufficient to cause eye, skin and upper respiratory tract irritation if ventilation is inadequate.

4.3. **Indication of any immediate medical attention and special treatment needed:** Depending on the degree of exposure, periodic medical examination is suggested.

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### SECTION 5 Firefighting measures

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- 5.1. **Extinguishing media**  
**Suitable extinguishing media:** Foam, CO<sub>2</sub>, dry powder, water fog or fine spray.  
**Unsuitable extinguishing media:** Do not use direct water stream.
- 5.2. **Special hazards arising from the substance or mixture:** Carbon oxides (CO, CO<sub>2</sub>) nitrogen oxides (NO, NO<sub>2</sub> etc.), hydrocarbons, isocyanate vapour can be released in case of fire.
- 5.3. **Advice for firefighters**  
**Special protective equipment:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Safety boots, gloves, safety helmet and protective clothing should be worn.  
**Further information:** In the event of fire and/or explosion do not breathe fumes. Isolate fire area and deny unnecessary entry. Containers at risk from fire should be cooled with water and, if possible, removed from the danger area.

### SECTION 6 Accidental release measures

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- 6.1. **Personal precautions, protective equipment and emergency procedures:** Immediately contact emergency personnel. Clean-up should only be performed by trained personnel. Keep unauthorized persons away.
- 6.1.1. **For non-emergency personnel:** Remove not affected people. Inform the relevant authorities.
- 6.1.2. **For emergency responders:** Use suitable protective equipment.
- 6.2. **Environmental precautions:** Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters. Avoid dispersal of spilt material and runoff and contact with drains and sewers.
- 6.3. **Methods and material for containment and cleaning up**  
Sweep the spilled material to covered vessels.
- 6.4. **Reference to other sections:** See section 1 for emergency contact information and section 13 for waste disposal. Put on appropriate personal protective equipment: see section 8.

### SECTION 7 Handling and storage

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- 7.1. **Precautions for safe handling**
- 7.1.1. **Protective measures**  
Provide sufficient air exchange and/or exhaust in work rooms. In all workplaces or parts of the plant where high concentrations of vapour may be generated, appropriately located exhaust ventilation must be provided in order to prevent occupational exposure limits from being exceeded. The air should be drawn away from the personnel handling the product.  
Avoid processing material above recommended thermal processing temperatures.  
Avoid breathing thermal processing fumes and vapour.  
Molten polymer may cause thermal burns to skin and serious burns to eyes.  
Granulate on the floor may be slippery and cause falls.
- 7.1.2. **Advice on general occupational hygiene:** No eating, drinking, smoking or tobacco use at the place of work. Contact with skin and eyes and inhalation of vapour must be avoided under all circumstances. Keep equipment clean.
- 7.2. **Conditions for safe storage, including any incompatibilities:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- 7.3. **Specific end use(s):** Not applicable.

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### SECTION 8 Exposure controls/personal protection

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Significant routes of exposure:

Human exposure: by inhalation (process vapour).

Environmental exposure: air.

Pattern of exposure: accidental/infrequent.

The recommended control strategies:

1. Employ good industrial hygiene practice.
2. Use local exhaust ventilation.
3. Enclose the process.
4. Seek the advice of a specialist.

#### 8.1. Control parameters

8.1.1. **Occupational Exposure Limit values:** Not applicable.

8.1.2. **DNEL/PNEC-values:** Not applicable.

#### 8.2. Exposure controls

8.2.1. **Appropriate engineering controls:** Provide suitable exhaust ventilation at the processing machines.

##### 8.2.2. Personal protection equipment

8.2.2.1. **Eye/Face protection:** Closed safety glasses with side-shields (frame goggles).

##### 8.2.2.2. Skin protection

Hand protection: Wear gloves for handling hot material during process.

Body protection: Safety shoes and closed work clothing.

8.2.2.3. **Respiratory protection:** For most conditions, no respiratory protection is needed. If handling at elevated temperature without sufficient ventilation or in presence of vapour, use breathing apparatus. Respirators type protection can be used in combination with an organic vapour filter type A.

8.2.2.4. **General safety and hygiene measures:** Do not breathe vapour. Keep away from drink, food and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and face should be washed before breaks and at the end of shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

8.2.3. **Environmental exposure controls:** In accordance with local and national regulations.

### SECTION 9 Physical and chemical properties

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#### 9.1. Information on basic physical and chemical properties

##### 9.1.1. Appearance:

**Physical state:** solid, granulate (at 20 °C, 1013 hPa)

**Colour:** Not applicable.

**Odour:** Not noticeable.

**Odour threshold:** No data.

##### 9.1.2. Basic data:

**pH (20 °C):** Not applicable.

**Melting point/freezing point:** 150 - 200 °C

**Initial boiling point and boiling range:** Not applicable.

**Flash point:** Not applicable.

**Evaporation rate:** No data.

**Flammability:** No data.

**Upper/lower flammability or explosive limits:** No data.

**Vapour pressure:** Not applicable.

**Vapour density (air=1):** Not applicable.

**Density:** 1. 18-1.22 g/cm<sup>3</sup> (at 23 °C)

**Water solubility:** Insoluble.

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<b>Partition coefficient n-octanol/water:</b>	Not applicable.
<b>Auto-ignition temperature:</b>	No data.
<b>Decomposition temperature:</b>	No data.
<b>Viscosity:</b>	Not applicable.
<b>Explosive properties:</b>	No data.
<b>Oxidising properties:</b>	No data.

9.2. **Other information:** No data.

### SECTION 10 Stability and reactivity

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- 10.1. **Reactivity:** Product can decompose at elevated temperatures.
- 10.2. **Chemical stability:** Stable under recommended storage conditions.
- 10.3. **Possibility of hazardous reactions:** Hazardous polymerization will not occur.
- 10.4. **Conditions to avoid:** High temperature (above 260 °C), moisture, strong light, open flames.
- 10.5. **Incompatible materials:** Not applicable.
- 10.6. **Hazardous decomposition products:** No hazardous decomposition products if stored and handled as prescribed/indicated.

### SECTION 11 Toxicological information

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- 11.1. **Information on toxicological effects**  
High processing temperatures may generate vapour, which may cause upper respiratory tract, skin and eye irritation and sensitization.
- 11.1.1 **Acute toxicity:** No data.
- 11.1.2 **Skin corrosion/irritation:** No data.
- 11.1.3 **Serious eye damage/irritation:** No data.
- 11.1.4 **Respiratory or skin sensitization:** No data.
- 11.1.5 **Germ cell mutagenicity:** No data.
- 11.1.6 **Carcinogenicity:** No data.
- 11.1.7 **Reproductive toxicity:** No data.
- 11.1.8 **STOT-single exposure:** No data.
- 11.1.9 **STOT-repeated exposure:** No data.
- 11.1.10. **Aspiration hazard:** No data.

### SECTION 12 Ecological information

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- 12.1. **Toxicity:** No data.  
Material is expected to have low aquatic toxicity of its insolubility in water.
- 12.2. **Persistence and degradability:** No data.
- 12.3. **Bioaccumulative potential:** No data.
- 12.4. **Mobility in soil:** No data.
- 12.5. **Results of PBT and vPvB assessment**  
The substance does not meet the criteria for persistent, bioaccumulation and toxicity (PBT) or the criteria for Very Persistent and Very Bioaccumulative (vPvB) in accordance with Annex XIII of 1907/2006/EC.
- 12.6. **Other adverse effects**  
It is not expected that this substance has an effect on global warming, ozone depletion in the stratosphere or ozone formation in the troposphere.

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### SECTION 13 Disposal considerations

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- 13.1 **Waste treatment methods:** The products becoming useless and the contaminated containers not suitable for product must be handled in accordance with EU and regional regulations.
- 13.1.1 **Product/Packaging disposal:** Contaminated packaging should be emptied as far as possible; than it can be passed on for recycling after being thoroughly cleaned. Wrappings cleaned from contamination with suitable cleaning process (e.g. by steaming, treating with washing fluid, etc.) must be considered as non-hazardous waste.
- 13.1.2. **Waste treatment options:** Observe local authority regulations.

### SECTION 14 Transport information

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**Land transport (ADR/RID/GGVSE)**  
**Sea transport (IMDG-Code/GGVSee)**  
**Air transport (ICAO-IATA/DGR)**

- 14.1. UN number: Not dangerous goods.
- 14.2. UN proper shipping name: Not dangerous goods.
- 14.3. Transport hazard class(es): Not dangerous goods.  
Classification code: Not dangerous goods.
- 14.4. Packing group: Not dangerous goods.  
Labels: Not dangerous goods.
- 14.5. Environmental hazards:  
Dangerous for the environment (ADR/RID): No.  
Marine pollutant (IMDG): No.
- 14.6. Special precautions for users  
EmS number: Not dangerous goods.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant.

### SECTION 15 Regulatory information

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#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU regulations

- COUNCIL DIRECTIVE of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (67/548/EEC).
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
- REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- Council Directive 96/82/EC of 9 December 1996 on the control of major-accident hazards involving dangerous substances.
- Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.
- International Chemical Safety Cards (WHO/IPCS/ILO)

- 15.2. **Chemical safety assessment:** In accordance with REACH Chemical Safety Assessment has not been carried out for this substance.

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### SECTION 16 Other information

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#### 16.1. Indication of changes

This version replaces all previous versions.

#### 16.2. Abbreviations and acronyms

CAS number: Chemical Abstracts Service number  
CLP: Classification, labelling and packaging regulation  
DNEL: Derived No Effect Level  
EC: European Commission  
EC number: EINECS and ELINCS number  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
PBT: Persistent, Bioaccumulative and Toxic  
REACH: The Registration, Evaluation, Authorisation and Restriction of Chemicals  
STOT: Specific Target Organ Toxicity  
STP: Sewage Treatment Plant  
vPvB: Very Persistent and Very Bioaccumulative

16.3. **Key literature references and sources for data:** Wanhua product information.

16.4. **Classification for substance and used evaluation method according to Regulation (EC) 1272/2008 (CLP):** Not applicable.

16.5. **Full text of R-, S-, H- and P-phrases:** Not applicable.

Language: English  
Date: 11.06.2015  
Safety Data Sheet  
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This SDS is prepared for the purpose of providing health, safety and environmental data. The information given corresponds with our actual knowledge and experience. While the descriptions, data and information contained in the present datasheet are provided in good faith, these are to be considered as guidance only.

This information is meant to describe our product in view of possible safety requirements, but it remains the responsibility of the customer to determine the applicability of the information and suitability of any product for its own particular purpose, to provide a safe workplace and comply with all applicable laws and regulations.

Since handling, storage, use and disposal of the product are beyond our control and our knowledge, we do exclude any responsibility connecting to handling, storage, use or disposal of this product.

Please note that if the product used as a component of another product, this SDS information may not be applicable.

Manufactured  
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