



Safety Data Sheet

according to Globally Harmonized System (GHS)

Printing date 29.01.2018

Revision: 29.01.2018

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

- **Product identifier**
- **Trade name:** Polybutylene Terephthalate Resin (PBR)
- **Applicable Models:**
1100, 1100-211A, 1100-211D, 1100-211DB, 1100-211DD, 1100-211DS, 1100-211H(B), 1100-211L, 1100-211LP, 1100-211LV, 1100-211LS, 1100-211M, 1100-211MB, 1100-211MD, 1100-211MM, 1100-211H, 1100-211HT1, 1100-211S, 1100-211X, 1100-211XB, 1100-211XC, 1100-211XCA, 1100-211XD, 1100-211XG, 1100-211XT, 1100-211XX, 1100-211Z, 1100X, 1200, 1200-211A, 1200-211AL, 1200-211AS, 1200-211D, 1200-211DD, 1200-211DP, 1200-211E, 1200-211EE, 1200-211F, 1200-211L, 1200-211LA, 1200-211M, 1200-211MT1, 1200D
- **Synonyms:** PBR
- **CAS Number:**
26062-94-2
- **Relevant identified uses of the substance or mixture and uses advised against :**
- **Identified/Recommended uses:** Polymer for manufacturing electrical, computer, and automobiles parts
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Chang Chun Plastics Co. Ltd.
7th Fl., No. 301, SongJiang Rd.
Taipei City, 10483, TAIWAN
Tel: +886-2-2500-1800 Fax: +886-2-2501-8018
WWW.CCP.COM.TW
- **Further information obtainable from:** SDS-info@ccp.com.tw
- **Emergency telephone number:** During normal opening times: +886 2 2500 - 1800 (8:30-17:30; GMT+8)

2 Hazards identification

- **Classification of the substance or mixture:**
The substance is not classified as hazardous according to the Globally Harmonised System (GHS).
- **Label elements:**
- **Hazard pictograms:** None (Not Required) - Not Regulated/Not Hazardous
- **Signal word:** None (Not Required) - Not Regulated/Not Hazardous
- **Hazard statements:** None (Not Required) - Not Regulated/Not Hazardous

3 Composition/information on ingredients

- **Chemical characterisation:** Substances
- **CAS No. Description**
26062-94-2 Polybutylene terephthalate

4 First aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
After contact with the molten product, cool rapidly with cold water.
Seek immediate medical advice.
Never pull off the molten material from the wound.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed:**
No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Water spray
Foam
Fire-extinguishing powder
Carbon dioxide
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
Spilled product can also be recycled as used chemicals.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
Use local exhaust ventilation if dust and aerosol are formed during handling.
- **Information about fire - and explosion protection:** Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Further information about storage conditions:** Store in dry conditions.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:**
Local exhaust ventilation may be necessary for some operations.
- **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.

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- **Ingredients with biological limit values:**

The product does not contain any relevant quantities of materials with biological limited values that have to be monitored.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

The usual precautionary measures are to be adhered to when handling chemicals.

- **Respiratory protection:** Suitable respiratory protective device recommended.

- **Protection of hands:**



Protective gloves

The selected protective gloves have to satisfy the specifications of standard EN 374 or its equivalent.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **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 protection:**



Safety glasses with side shields conforming to EN166, ANSI 87.1-2010, or equivalent.

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:

Solid .
Granulate .

Colour:

White

- **Odour:**

Odourless

- **Odour threshold:**

Not determined.

- **pH-value:**

Not applicable.

- **Change in condition**

Melting point/freezing point:

225 °C

Initial boiling point and boiling range: Undetermined.

- **Flash point:**

>335 °C (ASTM D93)

- **Flammability (solid, gas):**

Product is not flammable.

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- **Ignition temperature:** >420 °C
- **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 25 °C:** 1.3-1.4 Kg/L
- **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.
- **Other information:** No further relevant information available.

10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** This product is stable under prescribed use and storage.
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:**
 - Strong oxidizing agents
 - Acids.
 - Alkalis.
- **Hazardous decomposition products:**
 - Carbon monoxide (CO) and carbon dioxide (CO₂)
 - Tetrahydrofuran (THF)
 - Acids
 - Alcohol

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Not classified due to lack of data.
- **Skin corrosion/irritation:** Not classified due to lack of data.
- **Serious eye damage/eye irritation:** Not classified due to lack of data.
- **Respiratory or skin sensitization:** Not classified due to lack of data.
- **Germ Cell Mutagenicity:** Not classified due to lack of data.
- **Carcinogenicity:** Not classified due to lack of data.
- **Reproductive Toxicity:** Not classified due to lack of data.
- **Specific Target Organ Toxicity - Single Exposure (STOT SE):** Not classified due to lack of data.
- **Specific Target Organ Toxicity - Repeated Exposure (STOT RE):** Not classified due to lack of data.
- **Aspiration Hazard:** Not classified due to lack of data.

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- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritating effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising 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.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**
No data currently available for the product itself. Similar product suggest this product to be non-toxic or very low toxic to aquatic life based on low solubility.
- **Persistence and degradability**
Based on available information and own experiences, this product is not easily degradable.
- **Bioaccumulative potential**
Due to this product is insoluble and not degradable, bioavailability will be very low.
- **Mobility in soil** No further relevant information available.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Contact manufacturer for recycling information.
Any disposal method should also comply with national, regional, provincial, and local laws.
- **Uncleaned packaging:**
- **Recommendation:**
Packaging may be reused or recycled after cleaning.
Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **ADR, ADN, IMDG, IATA** None (Not a Dangerous Good)
- **UN proper shipping name**
- **ADR, ADN, IMDG, IATA** None (Not a Dangerous Good)
- **Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- **Class** None (Not a Dangerous Good)
- **Packing group**
- **ADR, IMDG, IATA** None (Not a Dangerous Good)
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.

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· **UN "Model Regulation":** None (Not a Dangerous Good)

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15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Status of global inventories:**
All component(s) within this product is listed or exempted from the following country's chemical inventory:
USA - TSCA
Australia - AICS
Canada - DSL
China - IECSC
Japan - ENCS
Korea - KECI
New Zealand - NZIoC
Philippine - PICCS
Taiwan - TCSI
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
- **General Disclaimers:**
CCP Group recommends that all the users/customers/recipients to study this Safety Data Sheet (SDS) carefully and understand all the data or any potential hazards associated with this product. Please consult with appropriate expert if necessary. The information herein is provided in good faith and is believed to be accurate on the date of issue. No warranty, expressed or implied, is given. It is the customer's/user's responsibility to ensure that they are complying with local, regional, state, provincial, and/or national laws in using this product, as regulatory requirement may differ at each level. It is also the customer's/user's responsibility to determine the necessary condition required for using this product safely, as actual operating or usage conditions are beyond CCP Group's control. CCP Group will not be responsible for any SDS obtained from elsewhere other than from CCP Group. If you are unsure whether the SDS you have is current or have obtained the SDS from another source; please contact us to obtain the latest version.

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