

Material Safety Data Sheet

Polymaker PC-Max

SECTION 1: Hazards identification

A. GHS classification of the substance/mixture

- Not classified

B. GHS label elements, including precautionary statements

Pictogram and symbol: Not applicable

Signal word: Not applicable

Hazard statements: Not applicable

Precautionary statements

Precaution: Not applicable

Treatment: Not applicable

Storage: Not applicable

Disposal: Not applicable

C. Other hazard information not included in hazard classification (NFPA)

Health: Not available

Flammability: Not available

Reactivity: Not available

SECTION 2: Composition / information on ingredients

Chemical Name	Common Name (Synonyms)	CAS number	Content (%)
Polycarbonate	PC	25037-45-0	>70%

SECTION 3: First aid measures

A. Eye contact

- Seek medical attention if eye symptoms occur.
- In case of contact with molten substance, immediately flush eyes with water for at least 15 minutes. Seek medical attention immediately.

B. Skin contact

- Remove and isolate contaminated clothing and shoes.
- Seek medical attention if skin symptoms occur.
- If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.
- Wash contaminated clothing and shoes before reuse.

C. Inhalation:

- Not available

D. Ingestion:

- Get medical attention if substance is ingested.

E. Indication of immediate medical attention and notes for physician

- Call emergency medical service. Get medical advice/attention if you needed.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- If burned by contact with molten material, cool as quickly as possible with water, and then see a physician for treatment.

SECTION 4: Firefighting measures

A. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media: CO₂, water, sand

B. Specific hazards arising from the chemical

- Thermal decomposition products: Not available
- Hazardous combustion products: CO₂, CO
- Unusual fire and explosion hazards : No explosion hazards.

C. Special protective equipment and precautions for fire-fighters

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural fire fighters' protective clothing will only provide limited protection.

SECTION 5: Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

- Stop leak if it can be done without risk.
- Isolate exposed area.
- Exclude unauthorised personnel.
- Use certified protective equipment.
- Ventilate the leaked area.
- Do not touch or walk through spilled material.

B. Environmental precautions and protective procedures

- Prevent entry into waterways, sewers, basements or confined areas.

C. The methods of purification and removal

- Use sweeping brush or vacuum cleaner.

SECTION 6: Handling and storage

A. Precautions for safe handling

- Avoid contact with molten material.
- Use general dilution ventilation and /or local exhaust ventilation to control airborne exposures.
- Prevention of Fire and Explosion: Not available.

B. Conditions for safe storage

- Keep container closed.
- Store container in a well dry/cool place.
- Keep away from water ways and sewers.
- Keep away from any source of ignition.

SECTION 7: Exposure controls/personal protection

A. Occupational Exposure limits

Korea regulation:	Not applicable
ACGIH regulation:	Not applicable
Biological exposure index:	Not applicable
OSHA regulation:	Not applicable
NIOSH regulation:	Not applicable
EU regulation:	Not applicable
Other:	Not applicable

B. Appropriate engineering controls

- Provide local exhaust ventilation system or other engineering controls to keep any airborne contamination below the respective threshold limit value.
- Check legal suitability of exposure level.

C. Personal protective equipment

Respiratory Protection:

- Wear NIOSH approved full or half face piece (with goggles) respiratory protective equipment when necessary.

Eye protection

- An eye wash unit and safety shower station should be available nearby work place.
- Wear safety glasses to protect eyes when working with molten material..

Hand protection

- It is a good industrial hygiene practice to minimize skin contact.
- When material is heated, wear gloves to protect against thermal burns

Body protection

- It is a good industrial hygiene practice to minimize skin contact. When material is heated, Wear gloves to protect against thermal burns.

H. Evaporation rate:	Not available
I. Flammability (solid, gas):	Not available
J. Upper/lower flammability or explosive limits:	Not available
K. Vapor pressure:	Negligible (20°C)
L. Solubility (ies):	Negligible
M. Vapor density:	Not available
N. Specific gravity:	> 1(density: 1.27g/ml (25 °C))
O. Partition coefficient: n-octanol/water:	Not available
P. Auto ignition temperature:	454 °C (ASTM E659)
Q. Decomposition temperature:	Not available
R. Viscosity:	Not available
S. Molecular weight:	Not available

SECTION 8: Physical and chemical properties

A. Appearance

Description:	Colorless solid (pellets)
Color:	Not available
B. Odor:	Slight odor
C. Odor threshold:	Not applicable
D. PH:	Not applicable
E. Melting point/freezing point:	Not applicable
F. Initial boiling point and boiling range:	Not applicable
G. Flash point :	Not available

SECTION 9: Stability and reactivity

A. Chemical stability :	Stable
B. Possibility of hazardous reactions:	None Known
C. Conditions to avoid:	None Known
D. Incompatible materials:	Not available
E. Hazardous decomposition products:	Not available

SECTION 10: Toxicological information

Information of health Hazardous Acute toxicity

Acute toxicity

Oral: None known

Dermal: Not available

Inhalation: Not available

Skin corrosion/ irritation: Molten material will produce thermal burns

Serious eye damage/ irritation: Molten material will produce thermal burns

Respiratory sensitization: Not available

Skin sensitization: Not available

Carcinogenicity: Not classified

KOREA-ISHL, IARC, NTP, OSHA, ACGIH, EU Regulation 1272/2008: Not listed

Mutagenicity : Not available

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeat exposure): Not available

Aspiration Hazard: Not available

SECTION 11: Ecological information

A. Ecological toxicity

- Acute toxicity: Not available
- Chronic toxicity: Not available

Fish: Not available

Crustacean: Not available

Algae: Not available

B. Persistence and degradability

Persistence: Not available

Degradability: Not available

C. Bioaccumulative potential

Bioaccumulation: Not available

Biodegradation: Not available

D. Mobility in soil: Not available

E. Other hazardous effect: Not available

SECTION 12: Disposal considerations

A. Disposal method

- Waste must be disposed of in accordance with federal, state and local environmental control regulations.

B. Disposal precaution

- Consider the requirements of any applicable waste treatment management regulation.

SECTION 13: Transport information

A. UN Number:	Not regulated as a hazardous material.
B. UN Proper shipping name:	Not applicable
C. Transport Hazard class:	Not applicable
D. Packing group:	Not applicable
E. Marine pollutant:	Not applicable
F. Special precautions	
-in case of fire:	Not applicable
-in case of leakage:	Not applicable

SECTION 14: Regulatory information

A. US Regulatory information

U.S.A management information (OSHA Regulation):	Not regulated
U.S.A management information (CERCLA Regulation):	Not regulated
U.S.A management information (EPCRA 302 Regulation):	Not regulated
U.S.A management information (EPCRA 304 Regulation):	Not regulated
U.S.A management information (EPCRA 313 Regulation):	Not regulated

B. Foreign Regulatory Information

Korea regulatory Information

Occupational Safety and Health Regulation:	Not regulated
Toxic Chemical Control Act:	Non-Toxic Chemicals (97-3-186)
Dangerous Material Safety Management Regulation:	Not regulated
Waste Control Act:	Not regulate

External information

EU classification (classification):	Not regulated
EU classification (risk phrases):	Not regulated
EU classification (safety phrases):	Not regulated
EU SVHC list:	Not regulated
EU Authorisation List:	Not regulated
EU Restriction list:	Not regulated
Persistent Organic Pollutants Acts:	Not regulated
Japan management information Existing and New Chemical Substances (ENCS):	(7)-714
China management information Inventory of Existing Chemical Substances (IECSC):	Present
01980 Canada management information Domestic Substances List (DSL):	Present

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Domestic Substances List (DSL): Present

Australia management information Inventory of Chemical Substances (AICS): Present

Substance of Rotterdam Protocol: Not regulated

Substance of Stockholm Protocol: Not regulated

Substance of Montreal Protocol: Not regulated

SECTION 15: Other information

Revised Material Safety Data Sheet based on the amendments made on the Ministry of Employment and Labor Public Notice on Standard for Classification Labeling of Chemical Substance and Material Safety Data Sheet.

This SDS is authored in pursuant to the Article 41 of the Occupational Safety and Health Act. The content is based on the latest information and knowledge that we currently possess.

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SECTION 16: Emergency contact

Contact:

Contact person: Michael Elstner

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Mail: emergency@germanreprap.com