



Material Safety Data Sheet

1. Identification of the substance and supplier

Product Name	Plastimake
Synonyms	Polycaprolactone 600C , Caprolactone Polymer
Average molecular weight	60,000
Date of issue	1 June 2023

Supplier

Company	Plastimake Pty Ltd
ABN	42605274959
Website	http://www.plastimake.com
Email	hello@plastimake.com

Recommended use

Plastimake is a **non-toxic** and **reusable** plastic material that you can use to make **strong** and **lightweight** objects with your bare hands, in minutes.

Simply heat Plastimake to 60°C (140°F) to make it soft and pliable. When cooled to room temperature it will be rock hard again.

For more information on using Plastimake please see:
<http://www.plastimake.com>

2. Hazards identification

Substance non-classified according to directive 67/548/EEC.

3. Product composition

Chemical entity	CAS No.	Proportion
Poly(ϵ -caprolactone)	24980-41-4	>99.5%

4. First aid measures

Eyes

Flush eyes with running water for several minutes, while keeping the eyelids wide open.

Skin

In case of contact with molten polymer: cool rapidly with cold water without attempting to peel it from skin, obtain medical treatment for burns.

Inhalation

Remove the subject from dusty environment and let them blow their nose.

Ingestion

Negligible.

5. Fire fighting measures

Suitable extinguishing media:

- Powder
- Foam, AFFF
- CO₂
- Large quantities of water, water spray

6. Accidental release measures

Personal Precautions

Follow the protective measures given below. Spilled material can be a slipping hazard.

Methods for cleaning up

Collect the product with suitable means avoiding dust formation. Product can be peeled from most metal surfaces when cool.

Environmental precautions

Prevent discharges into the environment (sewers, rivers, soils etc.)

7. Handling, storage and transportation

Handling

Avoid heating the product above the decomposition temperature.

Storage

Keep in a dry area, away from ignition and heat sources.

Transportation

Not subject.

8. Exposure controls and personal protection

Respiratory protection

- In case of dust clouds, dust mask type P1.
- Use only respiratory protection that confirms to international standards.

Eye protection

Protective goggles/face shield, if appropriate.

Hand protection

Protective gloves for protection against hot material.

Skin protection

Loose-fitting and long sleeved coverall.

Other precautions

Consult the industrial hygienist or the safety manager for the selection of personal protective equipment suitable for the working conditions.

9. Physical and chemical properties

Appearance	White Granules/Pellets
Odor	Odorless
PH	Not applicable
Boiling Point	Not applicable
Flash Point	275° C
Density	1.1(at 60°C)
Solubility	Insoluble in water, Soluble in Aromatic solvents and chlorinated hydrocarbons
Viscosity	1,500,000m Pa.S (at 100°C)
Freezing point	Ca. 35°C
Melting Point/range	60-62°C
Decomposition temperature	Ca. 200°C

10. Stability and reactivity

Conditions to avoid

- Heating the product to its decomposition temperature

Materials to avoid

- Acids
- Alkalis

Hazardous decomposition products

- Carbon monoxide
- Particulates of carbon
- Caprolactone/monomer

11. Toxicological information

The product is biologically inert.

Health effects

Main effects	Hazard due to contact with product at high temperature.
Inhalation	Negligible
Eyes contact	Mechanical irritation from the particulates generated by the product.
Skin contact	Negligible
Ingestion	Negligible

12. Disposal considerations

Waste treatment

- Dispose in compliance with local and national regulations.
- It is recommended to contact the producer for recycling/recovery.
- If this is not possible:
 - Send the product to an authorized industrial waste incinerator or dispose of product at a landfill authorised for industrial waste.