

SAFETY DATA SHEET

Low Temperature Thermoplastic Material

1. COMPOSITION/INFORMATION ON INGREDIENTS

Polycaprolactone and aqueous polyurethane dispersion

2. HAZARDS IDENTIFICATION

Under normal use conditions considered to present minimal hazard from a human health and environmental standpoint

3. FIRST AID MEASURES

General advice

Remove contaminated clothing

Inhalation

Not applicable

Skin contact

In case of contact with molten plastic (over 80°C): cool rapidly with cold water without attempting to peel from skin. Obtain medical treatments for burns.

Eye contact

Mechanical irritation only.
Rinse with plenty of water

Ingestion

If person is conscious: Negligible.
If person is unconscious: Not applicable.

Ingestion of large quantities can lead to mechanical constipation: call a physician immediately

Notes to physician

Main effects: Hazard due to contact with product at high temperature.

Specific therapy: not applicable

If product has been swallowed in large quantities: gastric lavage; acceleration of the gastrointestinal tract

4. FIRE-FIGHTING MEASURES

Non-flammable goods

Suitable extinguishing media

Water, foam, carbon dioxide, powder, AFFF.

Extinguishing media which must not be used for safety reasons

No restriction

Specific hazards during fire fighting

Combustible.

Formation of dangerous vapours in case of decomposition (see section 10)

Special protective equipment for fire-fighters

None

Further information

As for any fire, ventilate and clean the room before re-entry

5. ACCIDENTAL RELEASE MEASURES

Personal precautions

Negligible

Environmental precautions

None

Methods for cleaning up

Collect the product and place into container.

For disposal methods, refer to section 13.

6. HANDLING AND STORAGE

Handling

Safe handling advice

Keep away from ignition and heat sources.
Avoid heating the product above the decomposition temperature (see section 9)

Advice on protection against fire and explosion

Negligible

Storage

Requirements for storage areas and containers

Keep in original packaging in dry cool place.
Keep away from ignition and heat sources

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Other information

Non

Engineering measures

No flames or sparks, no smoking
Grounded equipment

Personal protective equipment

Respiratory protection

In case of dust clouds, dust mask type P1.
Use only respiratory protection that conforms to international/national standards

Hand protection

Protective gloves for protection against hot material.

Eye protection

Protective goggles/face shield, if appropriate

Skin and body protection

Loose-fitting and long sleeved coverall

Hygiene measures

Negligible, if normal rules of hygiene are respected.

Protective measures

Non

8. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form: plates
- Colour: peach, white, royal blue, red, black
- Odour: odourless

Safety data

- pH : not applicable
 - Melting point : 58-62°C
 - Boiling point : not applicable
 - Flash point : 275°C (method: open cup)
 - Freezing point : ca. -35°C
 - Vapour pressure : not applicable
 - Density : Specific Gravity 1.1 @ temperature 60°C
 - Water solubility : insoluble
 - Solubility in other solvents : soluble in aromatic solvents, chlorinated hydrocarbons and unsaturated polyesters
 - Partition coefficient : Not applicable
 - Viscosity, dynamic : 1,5 million CPS at 100°C
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9. STABILITY AND REACTIVITY

Stable under normal condition (see section 7)

Conditions to avoid

Avoid heat and moisture; acids and alkalis

Hazardous decomposition products

Carbon monoxide and dioxide when involved in fire

Further information

Non

10. TOXICOLOGICAL INFORMATION

Product is biodegradable and not dangerous

11. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradable product; abiotic degradation

Behaviour in environmental compartments

Product is not significantly hazardous for the environment

12. DISPOSAL CONSIDERATIONS

Product

Dispose in compliance with local/federal and national regulations.

Waste Key Number

No waste code number in accordance with the European Waste Catalogue can be specified for this product since it can only be categorised on the basis of its use by the consumer.

13. TRANSPORT INFORMATION

Not subject

Class RID/ADR: not classified as hazardous

Class ICAO/IATA: not classified as hazardous

Class OMI/IMDG: not classified as hazardous

14. REGULARITY INFORMATION

Labelling according to EEC Directive

- Hazardous defining components	:	None
- Symbols	:	None
- R-phrase	:	None
- S-phrase	:	None

15. SAFETY INFORMATION

The product and its packaging do not contain any of the following materials, neither as integral part nor as residues from production:

- substances which are carcinogenic, mutagenic or toxic to reproduction ('CMR'), of category 1A or 1B, in accordance with Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council
- substances having endocrine-disrupting properties for which there is scientific evidence of probable serious effects to human health and which are identified either in accordance with the procedure set out in Article 59 of Regulation (EC) No 1907/2006 of the European Parliament and of the Council, or, once a delegated act has been adopted by the Commission pursuant to the first subparagraph of Article 5(3) of Regulation (EU) No 528/2012 of the European Parliament and the Council (3), in accordance with the criteria that are relevant to human health amongst the criteria established therein
- phthalates
- Azocolorants according EU directive 2002/61/EG which could enable formation of potentially carcinogenic amines
- Tissues or cells of human or animal origin, or their derivatives
- substances of very high concern (please see "Candidate List for Authorisation" according to REACH regulation 1907/2006). The supplier is advised that the Candidate List for Authorisation is updated regularly with new substances added to the list
- the sum of concentration levels of lead, cadmium, mercury and hexavalent chromium present in product or packaging or packaging components shall not exceed 100 ppm by weight

16. OTHERS

Disposal: The user has to follow the instructions of the respective valid laws, standards and guidelines for disposal of garbage coming from the medicinal field.

The information given corresponds to the current state of our knowledge and experience of the product, and is not exhaustive.