

SECTION 1: Identification of the substance/preparation and of the company

1.1 Product identifier

Chemical Family: Polyurethane
Synonyms: THERMOPLASTIC POLYURETHANE ELASTOMER

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Filament for 3D printing application

1.3 Details of the supplier of the safety data sheet

Company name: Prima Printer Nordic AB
Street/POB-No.: Kantyxegatan 25 F
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SECTION 2: Hazards identification

Emergency Overview

UNDER HOT MELT PROCESSING CONDITIONS, WEAR PERSONAL PROTECTIVE EQUIPMENT TO PREVENT THERMAL BURNS.

Use with local exhaust ventilation.

State of matter: solid
Colour: colourless
Odour: mild

Potential health effects

Acute toxicity:

Inhalation of particulates may cause respiratory tract irritation. Ingestion may cause gastrointestinal disturbances. Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard.

Irritation / corrosion:

Not irritating to the eyes. Not irritating to the skin.

Assessment other acute effects:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Sensitization:

The chemical structure does not suggest a sensitizing effect.

Chronic toxicity:**Carcinogenicity:** The chemical structure does not suggest a specific alert for such an effect.**Repeated dose toxicity:** No known chronic effects.

Repeated exposure to the substance by dermal administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by inhalative administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by oral administration leads to effects similar to those found after single exposure.

Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect.**Teratogenicity:** The chemical structure does not suggest a specific alert for such an effect.**Genotoxicity:** The chemical structure does not suggest a specific alert for such an effect.**Signs and symptoms of overexposure:**

The most important known symptoms and effects are described in the labelling (See Section 2) and/or in section 11., No significant reaction of the human body to the product known.

No hazards anticipated.

Potential Environment effects**Aquatic toxicity:** There is a high probability that the product is not acutely harmful to aquatic organisms.**Degradation / environmental fate:**

Poorly biodegradable

SECTION 3: Composition / information on ingredients

CAS Number	Content (w/w)	Hazardous ingredients
	May contain substance of animal origin. May contain substance of plant origin.	

SECTION 4: First aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary.

Immediate medical attention required.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention. Skin contact with hot molten substance/product may cause thermal burns.

Burns caused by molten material require hospital treatment.

If in eyes;

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

Note to physician**Treatment:**

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Firefighting measures

Flash point: > 300°C
Auto ignition: not applicable
Lower explosion limit: For solids not relevant for classification and labelling
Upper explosion limit: For solids not relevant for classification and labelling

Flammability: Not flammable
Self-ignition temperature: not self-igniting

Suitable extinguishing media: Water spray, dry powder, carbon dioxide, foam

Hazards during fire-fighting: No particular hazards known.

Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further Information: In case of fire and/or explosion do not breathe fumes

SECTION 6: Accidental release measures

Personal precautions: No special precautions necessary.

Environmental precautions: No special precautions necessary

Cleanup: Spills should be contained and placed in suitable container for disposal.

SECTION 7: Handling and storage

Handling

General advice:

Provide suitable exhaust ventilation at the drying process and in the area surrounding the melt outlet of processing machines.

Protection against fire and explosion:

No explosion proofing necessary.

Storage

General advice: Avoid extreme heat. Avoid deposition of dust.

Storage incompatibility: General advice: Segregate from foods and animal feeds.

Storage stability: Protect against moisture.

SECTION 8: Exposure controls/personal protection

Advice on system design:

Provide local exhaust ventilation to control dust.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particular respirator as needed.

Hand protection:

Wear gloves to prevent contact during mechanical processing and/or hot melt conditions.

Eye protection: Not required.

Body protection: Not required.

General safety and hygiene measures:

Wearing of closed work clothing is recommended. Wear protective clothing to prevent contact during mechanical processing and/or hot melt conditions. Avoid inhalation of dust. Wash soiled clothing immediately.

SECTION 9: Physical and chemical properties

Form:	granules / filament
Odour:	mild
Odour threshold:	No data available
Colour:	Colourless
pH value:	not applicable
Boiling point:	not applicable
Sublimation point:	not applicable information available
Vapour pressure:	no applicable
Bulk density:	500 – 700 kg/m ³ (20°C)
Vapour density:	not applicable
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Viscosity, dynamic:	Not determined
Viscosity, kinematic:	No applicable information available
Solubility in water:	not soluble
Solubility in other solvents:	No applicable information available
Solubility (qualitative):	No applicable information available

SECTION 10: Stability and reactivity

Conditions to avoid:

No conditions known that should be avoided.

Substances to avoid:

No substance known that should be avoided.

Hazardous reactions:

The product chemically stable

No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

Carbon monoxide, carbon dioxide, hydrogen cyanide

Thermal Decomposition:

No decomposition if stored and handled as prescribed/indicated.

>230°C

Thermal decomposition above the indicated temperature is possible. Prolonged thermal loading can result in products of degradation being given off.

Corrosion to metals:

No corrosive effect on metal.

SECTION 11: Toxicological information

Acute toxicity

Oral:

Type of value: LD50

Species: rat

Value: >5.000 mg/kg

Aspiration Hazard: No aspiration hazard expected.

Other information:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

SECTION 12: Ecological information

Degradability / Persistence

Biological / Abiological Degradation

Evaluation: Poorly biodegradable

Bioaccumulation

The product has not been tested.

Other adverse effects:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

SECTION 13: Disposal considerations

Waste disposal of substance:

Incinerate in a licensed facility. Do not discharge substance/product into sewer system. Dispose of in a licensed facility.

SECTION 14: Other information

Further information

Reason of change: Changes in section 1: product name, Changes of product list General revision

Date of first version: 30.01.2013

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.



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