

Mayku Multiplier PETG Sheet

Material Safety Data Sheet



Circular: 428mm x 428mm

PART 1 : Substance / preparation and company name – HIPEX®G / HIPEX®G UVP

Company Name: Polycasa Nischwitz GmbH

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PART 2 : Composition / information on ingredients

Chemical nature: Polymer

Polyethylene terephthalate Glycol (PETG) Copolyester, colours, additives: CAS-N° 25640-14-6

Hazardous ingredients: None

PART 3 : Possible hazards

No obligation to label in accordance to EU directive 1999/45/EG – VO (EC) 1272/2008

PART 4 : First aid measures

If inhaled: On inhalation of decomposition products keep patient calm, remove to fresh air, and summon medical help

On skin contact: Areas affected by molten material should be quickly placed under cold running water and summon medical help

Note to physician: On inhalation of decomposition products: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

PART 5 : Fire fighting measures

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

Special protective equipment: In case of fire, wear a self-contained breathing apparatus

Further information: Dispose of fire residues and contaminated extinguishing water in accordance to local regulations

PART 6: Accidental release measures

Methods for cleaning up: Sweep/shovel up

PART 7: Handling and storage

Storage: In original packing, protected against environmental impacts, keep in a dry place

Handling: Ensure good ventilation and local exhaustion of the working area. In case of mechanical operations (drill, saw, mill) the instructions/limited values for handling fine dust are to be observed (VDI guideline 3673, 2263) (Germany). Fire and explosion protection: no specific measures must be taken.

PART 8: Exposure controls and personal protection

Ensure good room ventilation. As a rule, 10 or more air changes per hour are recommended in the workplace. Adapt ventilation to the conditions in the workplace

Personal protective equipment: In case of usual handling, no special protective equipment will be necessary.

Taking into account the used work techniques, such as sawing, milling, cutting, etc. hazardous respirable dust may be formed. Do not breathe dust. We recommend using corresponding respiratory protection or suitable ventilation.

Respiratory protection: Dust filter type P1 in case of fine dust creation

Skin protection: Safety gloves, in case rough edges may cause cuts

Eye protection: Safety glasses or complete face protection

General safety and hygiene measures: No general safety and hygiene measures necessary

PART 9: Physical and chemical properties

Form: sheets

Colour: clear or coloured

Odour: odourless

Change in physical state:

Vicat Softening point temperature	> 70 °C	ISO 306
Ignition temperature	> 400 °C	ASTM E 659 / DIN 51794
Fire promoting properties	None	
Density	1.27 g/cm ³	ISO 1183
Solubility in water	Insoluble	
Solubility in other solvents	Soluble in organic solvents	

PART 10: Stability and reactivity

Avoid thermal decomposition; DO NOT OVERHEAT

Start of thermal decomposition at 270 °C

Thermal decomposition, burning or faulty handling may diffuse noxious gases and vapours.

Thermal decompositions release carbon dioxide, carbon monoxide, monomers, steam and other degradation products.

PART 11: Toxicological Information

Acute toxicity: No data available, insoluble in water

Additional information: In our experience and according to information available to us The product is not harmful to health provided it is correctly handled and processed according to the given recommendations.

PART 12: Ecological Information

Behaviour and environmental effects: Due to the consistency of the product, and its insolubility in water, it will apparently not be bio-available

PART 13: Disposal considerations

Disposal code: EAK-Code: 120 105 (waste from mechanical forming, processing). EAK-Code: 170 203 (waste-parts, oddments)

The product is qualified for material recycling. After suitable treatment, the material can again be melted and processed.

The product can be dumped or incinerated in accordance with local regulations.

PART 14: Transport Information

Not classified as hazardous under transport regulations.

PART 15: Regulatory Information

Labelling according to EU Directives: Not subject to labelling

National legislation / regulations: Not classified according to German "Hazardous Substance" regulations (Germany)

PART 16: Other information

All HIPEX® G sheets are in compliance with the REACH directive.

The sheets are manufactured from co-polyester polymers and exempt from registration. Our products are not dangerous goods and therefore do not need safety data sheets as required by REACH or GHS. The product itself is a polymer and poses no risk to health or the environment.

We provide information for the safe handling of our products as a customer service and to highlight possible hazards in case of improper processing. The worst case is when this polymer is subjected to excessive heating during processing, the polymer chain might be cracked into its original components, which are then considered as harmful substances.