SAFETY DATA SHEET

Revision date: 23.05.2018
Print date: 23.05.2018

Laserply

SECTION 1: Product Description, Applications, Supplier

Product Description

PMMA (Polymethylmethacrylat)

Coating:	Polyesterfilm with pigmented lacquer coating (organic and/or inorganic pigments)
	Polyester: polyethylene terephthalat 19µ , 23µ
Core:	Acrylic copolymers, methyl methacrylat

Applications

Engraving

Details of the supplier of the technical data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

ECKART SIGNPLASTICS GMBH
Technologiepark 10-12
91522 Ansbach
Germany
phone: +49 (0) 981 / 48 75 5-0
fax: +49 (0) 981 / 48 75 5-22
e-Mail: info@eckartgmbh.de
web site: www.eckartgmbh.de

SECTION 2: Hazards identification

This material is not hazardous under normal conditions.

Risks for human health:	not known
Security risks:	not known
Environmental risks:	not known
Toxicity:	1
Flammability:	1
Reactivity:	0

Scale 1: insignificant – 2: moderate – 3: high – 4: extreme

Harmful effects due to exposure to the product are not known.

Eye contact:	Vapor from heated product can cause irritation.
Skin contact:	Vapor from heated product can cause irritation.
Inhalation:	Inhalation of vapor from heated product can cause irritation of nose, throat and lungs. It can also cause dizziness, headache and nausea.

SECTION 3: First aid measures

Inhalation:	If exposed to monomer vapors gerated during processing, move subject to fresh air. Avoid inhalation, consult a doctor if necessary.
Eye contact:	Flush eyes with a large amount of water for at least 15 minutes. Consult a doctor if irritation persists.
Skin contact:	In the case of accidental cuts, wash thoroughly with water. Consult a doctor if irritation persists. Burns on contact with molten polymer. Rapidly cool with cool water, if necessary, seek medical advice.

SECTION 4: Firefighting measures

Fire and explosive properties

Flash point:	> 250°C
Auto-Ignition temperature:	393°C / 739 F
Explosion data:	Not applicable
Unusual hazards:	Material as sold is combustible. It burns vigorously with intense heat. Carbon dioxide, carbon monoxide, plus other organic and inorganic oxides will be present.

Suitable extinguishing media recommended:

Isolate hazard area. Use water spray, carbon dioxide or dry chemical to extinguish fire.

Protective equipment: Use self-contained breathing equipment independent from circulating air and protective clothes.

Particular risks arising from product/products of combustion/generated gases:

When burned the following substances can be formed: Carbon monoxide(CO), small quantities of nitric oxide, trace amounts of hydrogen chloride and acetic acid.

SECTION 5: Technical Information

Chemical stability:	This product is considered stable. However, avoid temperature above 260°C / 500 F for prolonged periods to prevent slow decomposition.
Incompatibility with other materials:	Avoid contact with acids, alkalis and strong oxidizing agents.
Hazardous decomposition products:	Thermal decomposition may yield acrylic monomers.Combustion will yield carbon dioxide, carbon monoxide, plus other organic or inorganic oxides. In case of burning please refer to point 4.
Hazardous polymerization:	This product will not undergo polymerization.
Hazardous reactions:	none when used appropriately

- See more information on Technical data sheet

SECTION 6: Handling and Storage

Handling:

This material can release monomer vapors or gases when heated to high temperatures during processing, cutting or machining. Proper ventilation is required. Wear gloves to protect hands from being cut by sharp edges. Safety glasses are recommended. Sweep up or vacuum all scrap. Observe the general instructions in industrial work hygiene. Before using remove the protective foil.

Storage:

This material is not hazardous under normal conditions. However, all materials of this type release some monomer vapors or gases when stored for prolonged periods at elevated temperatures. Store product at ambient temperature, avoid heat from direct sunlight and extremes of humidity. Preferably, the sheets should be stored horizontally.

Other recommendations:

Use local exhaust ventilation with a minimum captur velocity of 100ft/min. (0,5m/sec) at the point of vapor evolution. Refer to the current edition of “Industrial Ventilation: A Manual of recommended practice.”

SECTION 7: Disposal considerations

The product presents no risk worth mentioning for the environment.

Transfer scrap material to suitable container for proper disposal. Use a waste incinerating plant for disposing. Dispose of waste in an approved waste treatment facility where permitted under appropriate federal, state and local regulations. Do not dispose of wastes with normal refuse without first applying for permission from your local regulatory body.

SECTION 8: Transport information

The product is not subject to the regulations concerning transport of dangerous goods.
(GGVS in the actually valid version)

SECTION 9: Other information

The above state information is based on the present state of knowledge and experience. The data sheet describes products in respect of safety requirements. This information cannot be considered as a quality or product warranty. The product is suitable only for the above mentioned standard usage parameters. The manufacturer declines any responsibility in case of improper use of the product when the product is exposed to stresses exceeding the values stated herein.