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KvK 32006014

Laser Micro

SDS



1. Identification

Commercial name: Laser Micro

Seller : C. Hecht & Co BV

Usage: Engraving

2. Composition / Information on Ingredients

name of the product: Coated / High Impact Acrylic Plastic Sheet

Coating

Chemical characteristics:

Polyeser gilm with pigmented lacquer coating (organic and/or inorganic pigments)

Polyester: polyethylenc terephthalate 19μ , 23μ

Core

Acrylic Copolymers Methyl Methacrylate

3. Hazards Identification

Coating

Risks for human health: not known
 Security risks: not known
 Environmental risks: not known

Generally

DPI Hazard Rating Scale

Toxicity: 1 4: extreme
Flammability: 1 3: high
Reactivity: 0 2: moderate
1: insignificant

LASERPLY is free of halogen, free of silicone and asbestos-free!

4. First aid

Inhalation: If exposed to monomer vapors gerated during

processing, move subject to fresh air.

Eye contact: Flush eyes with a large amount of water for at least 15

minutes. Consult a physician if irritation persists.

Skin contact: In the case of accidental cuts, wash thoroughly with

water. Consults a physician if irritation persists.

5. Fire-Fighting Measures

Fire and explosive properties

Flash point: Not applicable
 Auto-Ignition termperature: 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. CO_2 -powder and foam extinguisher.

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

6. Accidental Release Measures

Protect people: Wear gloves to protect hands from being cut by sharp

edges. Sweep up or vacuum all scrap.

Protect the environment: Transfer scrap material to suitable container for proper

disposal.

7. Handling and storage

Handling: This material can release monomer vapors or gases

when heated to high termperatures during processing, cutting or machining. Proper ventilation is required.

Observe the general instructions in industrial work

hygiene.

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.

Other recommendations: Use local exhaust ventilation with a minimum capture

velocity of 100 ft/min. (0.5m/sec) at the point of vapor evolution. Refer to the current edition of "Industrial

Ventilation: A Manual of recommended practice" published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use and maintenance of exhausts systems.

8. Special protection information

Engineering controls:
 Local exhausts and general ventilation as required, to

maintain emissions. Suck off product dust that may be

generated directly at the place of origin.

• Personal protective Equipment:

Gloves and safety glasses are recommended.

9. Physical and chemical properties

Coating

• Form:	solid		
		value/range	
Change in physical melti	> 220°C		
Boiling point / boiling ran	n.a.		
Flash point:	>300°C		
Ignition temperature:	>350°C		
Danger of explosion:	n.a.		
Explosion limits: Vapour pressure	lower limit: Upper limit:	n.a. n.a. n.a.	
Density:	>1,3g/cm³ at 20°C		
Solubility in water:	at 20°C practically Insoluble		
PH-value:		n.a.	
 Viscosity: 	n.a.		

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	<u>Category</u>	<u>Property</u>	Test Method		<u>Unit</u>
•	Toughness	Falling Dart Impact	ASTM D-3029 (73°F)	11	ft-lbs
		Izod Impact	ASTM D-256 (73°F) (0°F)	1,2 0,5	ft-lbs
•	Clarity:	Haze	(73°F) (140°F)	4 8	% %
		Water Haze	(104°F, 21 Days)	4,4	%
•	Thermoforming:	Optimum Forming Te Forming Temperature Heating Cycle Infrare Cooling Cycle Part Removal Tempe Time to Form: Total Forming Cycle I	e Range d erature	2 180 50	°F inites minutes minutes eseconds minutes
•	Other Properties:	Specific Gravity Flexural Modulus Coefficient of Thermal Expansion Heat Deflection Temperature Hardness Flammability	ASTM D-792 ASTM D-790 ASTM D-698 ASTM D-648 (264 psi, unannealed) ASTM D-785 UL-94	1,15 270,00 5,7 in/ir	g/cc 00 psi

Appearance/physical state: Clear to opaque

Boiling point: Not applicable

Solubility in water/miscibility: Not applicable

Self-Flammable temperature: 393 C / 739 F

Flash point: Not applicable

10. Stability and reactivity

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

angents.

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 5.

Hazardous polymerisation: This product will not undergo polymerisation.

Hazardous reactions: none when used appropriately

11. Toxicological information

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.

12. Ecological information

The product presents no risk worth mentioning for the environment.

13. Disposal Considerations

Disposal:

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.

14. Transport information

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

15. Regulatory information

The product is not a dangerous working substance according to the German "Gefahrstoff-Verordnung" in its existing valid version.

16. Other Information

The information contained herein relates only to the specific material identified. Such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warrantee, express or implied, is made as to the accuracy, reliability or completeness of the information. We urge persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

This 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.