

**PRODUCT HANDLING INFORMATION SHEET**

- 1 Substance / preparation and company name** CRYLON<sup>®</sup> HI 610 – CRYLON<sup>®</sup> HI 620 – CRYLON<sup>®</sup> HI 630  
extruded acrylic sheets, high impact modified
- Company: Polycasa GmbH,  
Gassnerallee 40, D-55120 Mainz  
Tel. +0049 (0) 6131 – 631-0
- Emergency information: Polycasa GmbH  
Tel.: +0049 (0) 6131 – 631-0  
Fax: +0049 (0) 6131 –631-202
- 2 Composition / information on ingredients**
- Chemical nature: Polymethyl methacrylate copolymer high impact modified
- Additives Possibly stabilizing agents and/or lubricants
- Hazardous ingredients None
- 3 Possible hazards** No obligation to label in accordance to EU directive 1999/45/EG – VO (EC) 1272/2008
- 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.
- 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
- 6 Accidental release measures** Methods for cleaning up: Sweep/shovel up

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**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) MAK-value (mill): 6 mg/m<sup>3</sup>. Fire and explosion protection: no specific measures must be taken.

**8 Exposure controls and personal protection**

The following can be released in traces when the product is processed:

Components with workplace control parameters:

Methyl methacrylate	50 ppm	210 mg/m <sup>3</sup>	CAS-Nr. 80-62-6	EG-Nr. 201-297-1	R36/37/38, R43 <sup>1</sup> H319/H335/H315/H317
Methyl acrylate	5 ppm	18 mg/m <sup>3</sup>	CAS-Nr. 96-33-3	EG-Nr. 202-500-6	R36/37/38 H319/H335/H315
n-Butyl acrylate		11 mg/m <sup>3</sup>	CAS-Nr. 141-32-2	EG-Nr. 205-480-7	R36/37/38
Styrene		85 mg/m <sup>3</sup>	CAS-Nr. 100-42-5	EG-Nr. 202-851-5	R36/37/38

The relevant MAK values should be observed (Germany) TRGS 900 (Germany).

Given suitable ventilation, it can be assumed that the threshold limits will not be reached.

**Personal protective equipment:**

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

*Under consideration of applied work technique, as sawing, milling, grinding, hazardous respirable dust may be formed when processed. 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

<sup>1</sup> Bitte Abschnitt 16 beachten

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**9 Physical and chemical properties**

Form: sheets

Colour: clear or coloured

Odour: product-specific

Change in physical state

Vicat Softening point

&gt; 90 °C

ISO 306

Ignition temperature

&gt; 300 °C

DIN 51794

Fire promoting properties

None

Density

 1.15 - 1.17 g/cm<sup>3</sup>

ISO 1183

Bulk density

 n. a. kg/m<sup>3</sup>

Solubility in water

Insoluble

Solubility in other solvents

soluble in organic solvents

**10 Stability and reactivity**

Start of thermal decomposition at 350°C

 Avoid thermal decomposition;  
DO NOT OVERHEAT

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.

**11 Toxicological Information**

Acute toxicity

No data available, insoluble in water

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

**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

**13 Disposal considerations**

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 to local regulations.

Disposal code: EAK-Code: 120 105

(waste from mechanical forming, processing)

EAK-Code: 170 203

(waste-parts, oddments)

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**14 Transport information** Not classified as hazardous under transport regulations.

**15 Regulatory information**

Labelling according to EU Directives.	National legislation / regulations
Not subject to labelling	Not classified according to German "Hazardous Substance" regulations (Germany).

**16 Other information**

All CRYLON<sup>®</sup> HI acrylic sheets clear or coloured are in compliance with the REACH directive. The sheets are manufactured from acrylic 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.

H319 / H335 / H315 <sup>2</sup> – EUH 070 <sup>3</sup> - R36/37/38 <sup>4</sup>	Irritating to eyes, respiratory system and skin
H317 - R43	May cause sensitization by skin contact

*Information contained herein is based on the present state of our knowledge and therefore does not guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.*

<sup>2</sup> Globally harmonized system, Hazard statements

<sup>3</sup> EUH Phrases

<sup>4</sup> Risk phrases (67/548/EC)