

Material Safety Data Sheet

Update : 7 / 10 / 13

Version : 1.0

Product Name: **ASTARIGLAS® CAST ACRYLIC SHEET: CLEAR**

1. IDENTIFICATION OF THE PRODUCT AND COMPANY IDENTIFICATION

Product name : ASTARIGLAS® CAST ACRYLIC SHEET : CLEAR

Address/Phone No. : Astari Europe GmbH
 Industriering 7
 D-63868 Grosswallstadt
 Germany

Emergency Phone No : +49 (0) 6022 26 1300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description

Clear sheet.

A high molecular weight acrylic sheet used in a wide range of applications.

Polymethyl methacrylate : greater than 90%

CAS No: 009011-14-7

Hazardous Ingredient(s)	CAS No.	EC No.	EC Classification
Not classified as hazardous ingredient(s)			

3. HAZARDS IDENTIFICATION

Under normal conditions of handling and use, this product is not expected to create any unusual industrial hazards. Care should be taken when thermoforming to ensure that the product is not exposed to temperature exceeding 200°C.

Primary Route Exposure

Eyes contact : No hazard expected in normal use. Possible slight mechanical irritation by fine particles when machining product.

Skin contact : Material can cause cuts when using cut sheets.

Inhalation : No hazard expected in normal use. Possible slight mechanical irritation by fine particles when machining product.

Ingestion : No hazard expected in normal use.

4. FIRST-AID MEASURES

Eye Contact : In case of irritation from fine particles during machining : flush eyes with eyelids retracted with plenty of water and consult a physician if irritation persists.

Skin Contact : No specific treatment is necessary since this material is not likely to be hazardous.

Inhalation : In case of prolonged irritation from fine particles when machining consult a physician.

Ingestion : Ingestion is not considered a potential route of exposure.

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5. FIRE-FIGHTING MEASURES

Flash Point	: above 250°C
Auto Ignition Temperature	: above 400°C
Flammability limits	: not applicable
Extinguishing Media	: Water spray, foam, dry chemical, carbon dioxide
Fire Fighting Protective Equipment	: A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Procedures

Collect material and place in a disposal container. Obey relevant local, state, provincial and federal laws and regulations.

7. HANDLING AND STORAGE

Handling

These sheets are heavy and unwieldy. They should be handled with care, particularly in windy locations or outdoors. If broken or chipped, the resultant edges can be sharp and cause cuts to skin and eyes.

During thermal processing and/or machining, local exhaust ventilation at processing machine is necessary.

Take precautionary measures against static discharges.

Storage

Keep away from sources of ignition. Protect from exposure to fire and heat.

Storage Temperature : Below 40°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapors are likely to be evolved.

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Local extraction close to the cutting head must be used when laser cutting. Where suitable engineering controls are not fitted or are inadequate, wear suitable protective equipment.

The following information is given as general guidance.

Respiratory protection	: In case of dust formation when machining wear dust mask
Engineering control (ventilation)	: Local exhaust should be used when machining. If use operations generate dust, use adequate ventilation.
Eye Protection	: Wear eye/face protection. Safety spectacles/goggles/full face shield.
Hand Protection	: Sharp edges may cause cuts. Wear suitable gloves against mechanical risks.
Other protective equipment	: Wear suitable protective clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: sheet
Appearance	: clear colorless sheet
Odor	: odorless
pH (Value)	: Not applicable
Boiling Point (°C)	: Not applicable
Auto Ignition Temperature (°C)	: above 400°C
Explosive Properties	: Not explosive
Oxidizing Properties	: Not oxidizing
Vapour Pressure (mm Hg)	: Not applicable
Vapour Density (air =1)	: Not applicable
Specific Gravity (water =1)	: 1.19
Solubility in Water	: insoluble
Partition Coefficient	: Not applicable
Decomposition Temperature (°C)	: Will not decompose below 200°C.
Freezing Point (°C)	: Not applicable
Softening Point (°C)	: above 100°C
Viscosity (dynamic)	: not applicable

10. STABILITY AND REACTIVITY

Stability	: No decomposition if stored and applied as directed
Incompatibility with other materials	: None reasonably foreseeable
Hazardous Polymerization	: No hazardous reactions known
Hazardous Decomposition Product(s)	: In case of thermal decomposition, combustible vapors are formed, which are irritating to eyes and respiratory system, mainly consisting of: methyl methacrylate
Condition to avoid	: This product is chemically stable

11. TOXICOLOGICAL INFORMATION

Further Information on Toxicology

The product has not been tested toxicologically. When handled and used as directed the product will not cause hazardous effects to health according to studies on similar products and practical experience.

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12. ECOLOGICAL INFORMATION

This environmental hazards assessment is based on information available on similar products.

Environmental Fate and Distribution

Medium tonnage material used in partially contained systems. Solid with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product has low mobility in soil.

Heavy metal based pigments will not leach from waste material.

Persistence and Degradation

The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

Effect on Effluent Treatment

Unlike to have an effect on effluent treatment systems. The material is essentially insoluble in water and can therefore be separated from aqueous medium by sedimentation and filtration processes at an effluent treatment plant.

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or nation legislation. Incineration may be used to recover energy value.

Bury on an authorized landfill site or incinerate under approved controlled conditions, using incinerators suitable for the disposal of noxious chemical waste.

Large quantities of waste may be recoverable. Contact supplier for specialized advice.

14. TRANSPORT INFORMATION

Not classified as dangerous for transport

15. REGULATORY INFORMATION

Not classified as dangerous for Supply/Use.

EC Classification : Under the classification, Packaging and Labeling of Dangerous Substances Regs, 1984, this material is not dangerous for supply or conveyance.

16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive 2001/58/EC

For other technical information, contact the address in Section 1.

Astari Niagara Internasional does not recommend this product for use in applications involving long-term contact with body tissues.

This information has been compiled from sources considered to be dependable and is, to the best of our knowledge, accurate and reliable as to the date compiled. However, no guarantee or warranty is made as to its accuracy, reliability and/or completeness. It is the user's responsibility to satisfy him as to the fitness or suitability of the product for the intended particular purpose or use. All risks of the use of the product are therefore assumed by the user. Appropriate warnings and safe handling procedures should be provided to handlers and users.

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