



Gammacril®

Product Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY/UNDERTAKING

Product Name: “ESACAST®” CAST ACRYLIC TUBES

Address / Phone No.: GAMMACRIL s.r.l.
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2. COMPOSITION / INFORMATION ON INGREDIENTS

PRODUCT DESCRIPTION

Acrylic tubes based on acrylic polymer of methylmethacrylate.

This data sheet covers the standard grades of “ESACAST®” Cast Acrylic Tubes, both clear and colours.

HAZARDOUS INGREDIENT(S)

No classifiable hazardous ingredient(s).

3. HAZARDS IDENTIFICATION

Low toxicity under normal conditions of handling and use.

4. FIRST-AID MEASURES

Inhalation: Remove patient from exposure. Obtain medical attention if ill effects occur.

Skin Contact: Wash skin with soap and water. Molten material can cause severe burns. Do not try to peel molten polymer from the skin. Cool rapidly with water. Obtain medical attention.

Eye Contact: Remove particles by irrigating with eye wash solution or clean water, holding the eyelids open. Obtain medical attention.

Ingestion: Do not induce vomiting. Wash out mouth with water. Obtain medical attention if ill effects occur.

Further Medical Treatment

Symptomatic treatment and supportive therapy as indicated.

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5. FIRE – FIGHTING MEASURES

Combustible but not readily ignited.

Extinguishing Media: Water spray, foam, dry powder or CO2.

Incompatible Materials: None known.

Fire Fighting Protective Equipment: A self contained breathing apparatus and full protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Pick up and if necessary throw into waste drums or plastic bags.

7. HANDLING AND STORAGE

7.1 HANDLING

Extra care should be taken to prevent burns from contact with hot material.

Unlikely to represent a dust hazard under normal handling conditions.

Process Hazards

During thermal processing and/or mechanical processing with chip removal machining, suction is necessary localized on the machinery.

7.2 STORAGE

“ESACAST®” Cast Acrylic Tubes are supplied in cardboard boxes. Keep boxes in a clean, cool and dry area away from heat sources. Natural ventilation is adequate.

Storage temperature: ambient.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

During processing provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. 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.

The following information is given as general guidance.

Respirators: **NORMAL HANDLING:** In the unlikely event of formation of particularly high levels of dust a suitable dust mask may be appropriate.
THERMAL PROCESSING: Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A may be appropriate. In the unlikely event of formation of particularly high levels of vapour a self contained breathing apparatus may be appropriate.

Eye protection: Wear eye/face protection, safety spectacles during processing.

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Gloves. NORMAL HANDLING: Not normally required.
 THERMAL PROCESSING: Wear thermal insulating gloves when handling hot masses.

Other: Wear suitable protective clothing. For information regarding process hazards refer to Section 7, Handling and Storage.

Occupational Exposure Limits

| HAZARDOUS INGREDIENT(S) | LTEL 8hr ppm | TWA mg/m ³ | STEL ppm | STEL mg/m ³ |
|---|-----------------|--------------------------|-------------|---------------------------|
| Methyl Methacrylate CAS-No.80-62-6 ACGIH Not Classifiable as a Human Carcinogen. | 50 | 205 | 100 | 410 |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------------|-------------------------------|
| Form: | tubes |
| Colour: | clear or coloured |
| Odour: | odourless |
| Softening point (Deg C°): | 85 – 100 |
| Auto Ignition Temperature (Deg C°): | > 300 |
| Decomposition Temperature (Deg C°): | > 350 |
| Freezing Point (Deg C°): | Not applicable. |
| Pour Point (Deg C°): | Not applicable. |
| Initial Boiling Point (Deg C°): | Not applicable. |
| Boiling Point (Deg C°): | Not applicable. |
| Melting Point (Deg C°): | Not applicable. |
| Flash Point (Deg C°): | Not applicable |
| Flammable Limits: | Not applicable. |
| Explosive Properties: | Not applicable. |
| Oxidising Properties: | Not applicable. |
| Vapour Pressure (Pascals): | Not applicable. |
| PH (Value): | Not available. |
| Solubility (Water): | Practically insoluble. |
| Solubility (Other): | soluble in: organic solvents. |
| Specific Gravity: | 1.19 |

10. STABILITY AND REACTIVITY

| | |
|-------------------------------------|----------------------|
| Hazardous Reactions: | None known. |
| Hazardous Decomposition Product(s): | Methyl methacrylate. |

11. TOXICOLOGICAL INFORMATION**Inhalation**

Unlikely to be hazardous by inhalation. High concentrations of vapour from hot operations may be harmful, cause irritation of the respiratory tract and slight narcotic effects.

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Skin Contact

Unlikely to cause skin irritation.

Eye contact

Dust may cause irritation.

Ingestion

Low oral toxicity.

Long Term Exposure

This material has been in use for many years with no evidence of adverse effects.

12. ECOLOGICAL INFORMATION

Environment Fate and Distribution

Solid with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product is predicted to have low mobility in soil.

Persistence and Degradation

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

Toxicity

The product is predicted to have low toxicity to aquatic organisms.

Effect on Effluent Treatment

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

“ESACAST®” Cast Acrylic Tubes waste is considered to be non-hazardous. Clean scrap may be reprocessed. Incineration may be used to recover energy value. May be disposed of by landfill in accordance with local regulations. Ensure that all packaging is disposed of safely.

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

15. REGULATORY INFORMATION

Not Classified as Dangerous for Supply/Use.

CE Labelling: Not applicable.

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16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive 93/112/EC.

“ESACAST®” is a trade mark of GAMMACRIL s.r.l.

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GLOSSARY:

LTEL: Long Term Exposure Limit
TWA: Time Weighted Average
STEL: Short Term Exposure Limit