

**MATERIAL SAFETY DATA SHEET**

HIG.F. 51

ACRIGEL[®] CT (CAST SHEET)
ACRIGEL[®] XT (EXTRUDED SHEET)

Ver.: 8

Fl. 1/4

30/09/10

Process: Occupational Hygiene

1 PRODUCT AND COMPANY IDENTIFICATION

Product: Polymethyl methacrylate
Manufacturer: Unigel Plásticos
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2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Polymethyl methacrylate
Trade Name	Acrigel [®] CT Acrigel [®] XT
Synonyms	PMMA or polymer of methylmethacrylate
CAS Number	9011-14-7
Chemical Family	Thermoplastics, acrylic polymers
Chemical Formula	-[CH ₂ C(CH ₃)COOCH ₃]-n

3 HAZARDS IDENTIFICATION**Inhalation**

In normal use is not likely to inhalation.
Dust or powder inhalation can cause respiratory irritation.
Fume from improperly processing may be injurious to health.

Contact with eyes:

Solid or dust may cause mild irritation or corneal injury due to mechanical action.

Contact with skin

Powder or dust can cause skin irritation.
Molten material can cause severe burn.

Health Risks

The exposure to product does not cause toxic effects or risks to health.

Ingestion

In normal use is not likely to ingest. Minimal toxicity.

4 FIRST AID MEASURES**Inhalation**

Not likely to inhalation. Powder or dust may be inhaled, in this case, move to a place with fresh air. If start to cough, have difficult to breath or have any other symptoms, get medical attention.



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Contact with skin

Not likely to be hazardous. Flush affected area with plenty of water. If the skin irritation continues, get medical attention.

Contact with eyes

In case of irritation, flush eyes with plenty of water. If symptoms persist, get medical attention.

Ingestion

Not a likely route of exposure. Do not induce vomiting without medical advice. Get medical attention.

NOTES TO PHYSICIAN

It is not specific, but melted polymer can burn and join the skin. The removal of hot polymer worsens the burn. Cool the affected area with water or preferably with ice. A doctor must remove the plastic and treat the burn.

5 FIRE FIGHTING MEASURES

Basic procedure for extinguishing a fire

The suppression of fire must start immediately. Fire fighters and people who may be exposed to combustion products must use self breathing apparatus and protective suit.

Extinguishing media

Use carbon dioxide, water spray, foam or dry chemical.

Fire and Explosion Hazards

Combustible. Product is not explosive.

In case of fire, carbon monoxide, carbon dioxide and monomer vapors can be generated by thermal decomposition or combustion.

6 ACCIDENTAL RELEASE MEASURES

In case of spill or leak


Collect the solid material by mechanical ways and place in appropriate containers. Observe local, state and /or federal laws and regulations to do the waste characterization and disposal.

7 HANDLING AND STORAGE

Handling

Prevent contact with eyes and skin. Use good industrial hygiene practices. Provide adequate ventilation. Do not breathe vapor or dust.

Storage

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Store the product preferably on a cool and ventilated place. Keep the original packaging. Store away from sources of ignition. Keep the material separated from incompatibles products.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation

It is recommended to have a workplace with continuous fresh air ventilation. If necessary, an exhaust system is recommended to remove processing fume.

Respiratory Protection

In case of cutting or milling, small amounts of residual monomer and powder can be released and inhaled. Disposable dust masks may be required.

Eye Protection

Always use safety glasses.

Skin Protection

Use appropriate clothes and chemical resistant gloves to prevent skin contact. After material handling, wash your skin. In case of contamination, wash the affect area promptly.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Color	Transparent or Color
Odor	Mild odor
Specific Density	1,19 g/cm ³
PH	Not applicable
Evaporation Rate	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Solubility in water	Insoluble

10 STABILITY AND REACTIVITY

Stability

The material is stable under recommended storage and handling conditions.

Conditions to avoid


Avoid open flame and ignition sources.

Incompatible materials or substances

Acids, alkalies and strong oxidizing agents can attack the polymer.

Hazardous decomposition products

Thermal decomposition will produce oxides of carbon. Some acrylic monomers may also occur.

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11 TOXICOLOGICAL INFORMATION

No toxicological data available.

12 ECOLOGICAL INFORMATION

No ecotoxicological data available.

13 CONSIDERATIONS ON THE TREATMENT AND DISPOSAL

Information on disposal of the product is valid only for the product as provided by Unigel Plásticos. The product to be discarded is considered a not hazardous waste according to ABNT Standard NBR 10004.

Efforts to recycle the material should be made. If unable to recycle, the material can be incinerated in accordance to all applicable federal, state and local regulations.

14 INFORMATION ON TRANSPORT

DOT HAZARD CLASSES: Not Regulated.

IDENTIFICATION NUMBER: Not Regulated.

15 REGULATIONS

All Acrigel[®] grades comply with the RoHS Directive 2002/95/EC and WEEE Directive 2002/96/EC.

Another requirements need to be consulted with the local regulatory bodies. Transport, storage, treatment and disposal of this material must be conducted in accordance with federal regulations. Also check the state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations.

16 OTHER INFORMATION

The information contained in this publication is based on data available to us and is believed to be correct. However, Unigel Plásticos makes no expressed or implied warranty concerning the accuracy of the information contained herein or the results of its usage. Unigel Plásticos shall not be liable for any problems due to misuse of the information contained herein, nor for injuries due to their products.

Developed by the Departments of Occupational Hygiene (71) 3602-5492.