

SAFETY DATA SHEET**Product: ACRIGEL[®] RESINA PMMA**

Version: 07

Date: 02/08/2021

Pages: 1/10

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the product	ACRIGEL [®] RESINA PMMA - POLYMETHYL METHACRYLATE.
Recommended uses	Use in industries.
Restrictions on use	Not recommended for other uses.
Company	Unigel Plásticos S/A.
Address:	Fazenda Caroba, s/n - Candeias - BA - CEP: 43813-300, Brazil.
Telephone number	55 (71) 3878-6633.
Emergency telephone number	0800 110 8270 Pró-Química.

SECTION 2: HAZARDS IDENTIFICATION

Most important hazards	Product not classified as dangerous by the Classification System used.
Product effects	
Adverse effects to the human health	Contact with the product can cause slight irritation to the skin with flaking and dryness, contact with the eyes can cause redness and tearing, by mechanical action.
Environmental effects	It is not expected that product presents environmental effects.
Physical and chemical hazards	It is not expected that product presents physical and chemical hazards.
Chemical product-specific hazards	It is not expected that product presents specific hazards.
Important symptoms	Contact with the product can cause slight irritation to the skin with flaking and dryness, contact with the eyes can cause redness and tearing, by mechanical action.
Classification of the chemical product	Product not classified as dangerous by the Classification System used.
Classification system adopted	Globally Harmonized System of Classification and Labeling of

SAFETY DATA SHEET**Product: ACRIGEL[®] RESINA PMMA**

Version: 07

Date: 02/08/2021

Pages: 2/10

Chemicals (GHS), United Nations, 2019.

Adequate labeling elements

Pictograms Not applicable.

Signal word Not applicable.

Hazard statement(s) Not applicable.

Precautionary statement(s)

Wash your hands after handling the product.

Do not drink, eat or smoke when handling the product. It is recommended to use suitable PPE's when handling the product.

Obtain product information before handling. Store the product in a suitable place.

In case of emergency, proceed as indicated by the SDS.

Outline of an anticipated emergency

NON-HAZARDOUS SOLID.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**SUBSTANCE**

Systematic chemical or trivial name

Polymethyl methacrylate.

Common or generic name

Methacrylic acid methyl ester polymers.

CAS Number

9011-14-7.

Impurities and stabilizing additives contributing to the hazard

There are no impurities that contribute to the danger.

SECTION 4: FIRST-AID MEASURES**Exposure routes**

Inhalation

Remove the victim to a ventilated place.

Skin contact

Wash exposed skin with sufficient water to remove the material.

SAFETY DATA SHEET**Product: ACRIGEL[®] RESINA PMMA**

Version: 07

Date: 02/08/2021

Pages: 3/10

Eye contact:	Rinse thoroughly with water for several minutes. If using contact lenses, remove them if it is easy. If eye irritation persists consult a doctor. Take this SDS.
Ingestion	Do not induce vomiting. Do not give anything by mouth to an unconscious person. Wash the victim's mouth with plenty of water. If vomiting occurs, tilt the patient forward or place him on the left side (upward if possible) to keep the airway open and avoid aspiration. Keep the patient silent and maintain normal body temperature. Consult a TOXICOLOGY CENTER or a doctor. Take this SDS.
Anticipated acute effects and/or anticipated delayed effects	Contact with the product can cause slight irritation to the skin with flaking and dryness, contact with the eyes can cause redness and tearing, by mechanical action.
Most important symptoms/effects	Contact with the product can cause slight irritation to the skin with flaking and dryness, contact with the eyes can cause redness and tearing, by mechanical action.
Protection of first aiders and/or special notes to a physician	If necessary, provide symptomatic treatment.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media	Suitable: Compatible with dry chemical powder, foam, carbon dioxide (CO ₂) and water fog. Not recommended: direct water jets.
Specific hazards arising from the chemical product	The combustion of the chemical products or containers may form toxic and irritating gases such as carbon monoxide (CO), carbon dioxide (CO ₂) and monomer vapors.
Specific extinguishing methods	Containers and tanks involved in the fire should be cooled with water laterally.
Special equipment for the protection of firefighters	Self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing.

SAFETY DATA SHEET**Product: ACRIGEL[®] RESINA PMMA**

Version: 07

Date: 02/08/2021

Pages: 4/10

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Do not smoke. Avoid contact with the product. If necessary, use personal protective equipment as described in section 8.
Protective equipment:	Use protective equipment as described in Section 8.
Emergency procedures	Wear complete PPE, with glasses with side protection, suitable protective gloves, closed shoes, and safety clothing to protect the body. Protective mask with dust filter, if necessary.
Environmental precautions	Prevent the product from reaching the soil and water courses. Notify the relevant authorities if the product has caused environmental pollution (if it has reached water courses or if it has contaminated the soil or vegetation).
Methods and materials for containment	Containment techniques may include bunding, covering of drains and capping procedures.
Methods and materials for cleaning up	Collect the product with a clean shovel or other instrument that does not disperse the product. Put material in suitable containers and remove them to a safe place. For disposal, proceed according to Section 13 of this SDS.
Secondary disaster prevention measures	Do not dispose directly into the environment or into the sewage system. The products resulting from fire control may cause pollution.

SECTION 7: HANDLING AND STORAGE**Handling**

Precautions for safe handling	Handle in a ventilated area or with a general local ventilation / exhaust system. Avoid dust formation and product exposure. Use personal protective equipment as described in section 8.
Technical measures for prevention of exposure of the handler	Use personal protective equipment as described in Section 8.
Technical measures for prevention of fire and explosion	It is not expected that the product presents a fire or explosion hazard.

SAFETY DATA SHEET**Product: ACRIGEL[®] RESINA PMMA**

Version: 07

Date: 02/08/2021

Pages: 5/10

Suitable precautions	Contaminated clothing should be changed and washed before reuse. Remove clothing and protective equipment contaminated before entering eating areas.
Prevention of contact	Wash hands and face thoroughly after handling and before eating, drinking, smoking, or going to the bathroom.
Storage	
Conditions for safe storage	Store the product in a tightly closed container and in a dry, well-ventilated place. To maintain the quality of the product, do not store it in the heat or in direct sunlight.
Technical measures	Keep away from high temperatures and incompatible materials.
Incompatible substances and mixtures	Oxidizing agents and strong acids.
Packaging materials	
Recommended material	Similar to the original packaging.
Unsuitable material	It is not known unsuitable materials.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Permissible concentration**

Occupational exposure limit Not established.

Biological limit Not established.

Engineering controls measures Promote direct mechanical ventilation and exhaust system to the outside environment. These measures help reduce exposure to product.

Appropriate personal protective equipment

Respiratory protection In case of dust formation, use respiratory protection equipment against dust - P2. Based on the inhalation hazard of the product, a risk assessment must be carried out to adequately define respiratory protection in view of the conditions of use of the product.

SAFETY DATA SHEET**Product: ACRIGEL[®] RESINA PMMA**

Version: 07

Date: 02/08/2021

Pages: 6/10

Hand protection	Safety gloves. The material used should be waterproof.
Eye protection	Safety glasses with side protection.
Skin and body protection	Suitable safety clothing and closed shoes.
Special precautions	Not established.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid (pellets or powder), transparent or colored.
Odour	Characteristic.
pH	Not applicable.
Melting point/freezing point	Not available.
Boiling point, initial boiling, and boiling range	Not available.
Flashpoint	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.19 g/cm ³ .
Solubility(ies)	Insoluble in water.
n-octanol/water partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Odour threshold	Not available.
Evaporation rate	Not available.
Flammability	Not available.
Viscosity	Not available.

SAFETY DATA SHEET**Product: ACRIGEL[®] RESINA PMMA**

Version: 07

Date: 02/08/2021

Pages: 7/10

Other information Not available.

SECTION 10: STABILITY AND REACTIVITY

Chemical stability	Product is stable under normal conditions of temperature and pressure.
Hazardous reactions	There are not known hazardous reactions with the product.
Conditions to avoid	High temperatures, heat, friction and contact with incompatible materials.
Incompatible materials	Oxidizing agents and strong acids.
Hazardous decomposition products	The combustion of the chemical or its packaging can form carbon monoxide and carbon dioxide, some monomers.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	The product is not expected to be toxic to the oral, dermal and inhalation routes.
Skin irritation/corrosion	Prolonged exposure to the product may cause mild skin irritation with dryness and flaking.
Eye damage/irritation	Prolonged exposure to the product may cause mild eye irritation with redness and tearing.
Respiratory or skin sensitization	It is not expected that the product causes respiratory or skin sensitization.
Reproductive cell mutagenicity	It is not expected that the product presents reproductive cell mutagenicity.
Carcinogenicity	The product is not carcinogenic. IARC - classifies methyl polymethacrylate as group 3 - Not classified as carcinogenic to humans.
Reproductive toxicity	It is not expected that the product presents reproductive toxicity.
Specific target organ toxicity – single exposure	Inhalation of the product may cause respiratory irritation with coughing and sneezing by mechanical action.

SAFETY DATA SHEET**Product: ACRIGEL[®] RESINA PMMA**

Version: 07

Date: 02/08/2021

Pages: 8/10

Specific target organ toxicity – repeated exposure	It is not expected that the product presents specific target organ toxicity by repeated exposure.
Aspiration hazard	It is not expected that the product presents aspiration hazard.
Toxicokinetics, metabolism and distribution	No information is described on the toxicokinetics and metabolism of this product.

SECTION 12: ECOLOGICAL INFORMATION**Environmental effects, behavior, and fate of the product**

Ecotoxicity	It is not expected that the product presents ecotoxicity.
Persistence and degradability	Due to the lack of data, it is expected that the product presents persistence, and it is not considered readily biodegradable.
Bioaccumulative potential	The product is expected to have no bioaccumulative potential.
Mobility in soil	Not determined.
Other adverse effects	There are not known adverse environmental effects of the product.

SECTION 13: DISPOSAL CONSIDERATIONS

Methods of disposal to the chemical product, product waste and/or contaminated container and/or packaging	Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product. Keep the product remains in its original and properly closed. Disposal should be performed as established for the product. Do not reuse empty containers. These may contain product residues and should be kept closed and sent for proper disposal as established for the product.
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SECTION 14: TRANSPORT INFORMATION**International regulations**

Land	UN – “United Nations” Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations
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SAFETY DATA SHEET**Product: ACRIGEL[®] RESINA PMMA**

Version: 07

Date: 02/08/2021

Pages: 9/10

Sea	IMO – International Maritime Organization International Maritime Dangerous Goods Code (IMDG Code)
Air	IATA – International Air Transport Association Dangerous Goods Regulation (DGR)
UN number	Not classified as hazardous to transport.
Transport in bulk according to MARPOL 73/78, Annex II, and the IBC Code	Consult regulations: - International Maritime Organization. MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006; - International Maritime Organization. IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.
Special precautions	There is no need of special precautions.

SECTION 15: REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

International Organization for Standardization - ISO 11014:2009.

SECTION 16: OTHER INFORMATION

This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

SDS elaborated in February 2021.

SAFETY DATA SHEET

Product: ACRIGEL® RESINA PMMA

Version: 07

Date: 02/08/2021

Pages: 10/10

Abbreviations:**ACGIH** – American Conference of Governmental Industrial Hygienists**CAS** – Chemical Abstracts Service**Bibliographic references:**

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ECHA. EUROPEAN CHEMICAL AGENCY. Disponível em: <<https://echa.europa.eu/>>. Available in: feb. 2021.

ECHEM. The Global Portal to Information on Chemical Substances OECD. Available in: <https://www.echemportal.org/echemportal/substancesearch/substancesearch_execute.action>. Access in: feb. 2021.

Ficha de Informações de Segurança de Produtos Químicos – FISPQ. Polimetacrilato de metila. Revision: 07. Date: 08.02.2021.

GHS. Globally Harmonized System of Classification and Labelling of Chemicals. 8. rev. ed. New York: United Nations, 2019.

IARC. INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available in: <<http://monographs.iarc.fr/ENG/Classification/index.php>>. Access in: feb. 2021.

NIOSH. NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available in: <<http://www.cdc.gov/niosh/>>. Access in: feb. 2021.

NJ. STATE OF NEW JERSEY - Department of Health. Available in: <<http://nj.gov/health/eoh/rtkweb/odispubr.shtml>>. Access in: feb. 2021.

TOXNET. TOXICOLOGY DATA NETWORKING. ChemIDplus Lite. Available in: <<http://chem.sis.nlm.nih.gov/>>. Access in: feb. 2021.