

**SAFETY DATA SHEET****Product: ACRIGEL® CT/ ACRIGEL® XT**

Version: 04

Date: 01/27/2021

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**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

|                               |   |
|-------------------------------|---|
| Identification of the product | ACRIGEL® CT (CAST SHEET)<br>ACRIGEL® XT (EXTRUDED SHEET)      |
| 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.  |
| <b>Product effects</b>                 |   |
| 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                  | Globally Harmonized System of Classification and Labeling of  |

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|                                     |   |
|-------------------------------------|---|
| adopted                             | Chemicals (GHS), United Nations, 2019.  |
| <b>Adequate labeling elements</b>   |   |
| Pictograms                          | Not applicable.   |
| Signal word                         | Not applicable.   |
| Hazard statement(s)                 | Not applicable.   |
| Precautionary statement(s)          | Wash your hands after handling the product.<br>Do not drink, eat or smoke when handling the product. It is recommended to use suitable PPE's when handling the product.<br>Obtain product information before handling. Store the product in a suitable place.<br>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. |

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|  |   |
|--|---|
| 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.<br>The molten polymer can cause burns and stick to the skin. Do not attempt to remove the burnt polymer as it may make the burn worse. Cool the affected area with water and ice. A doctor should remove the plastic and treat the burn.   |

**SECTION 5: FIRE-FIGHTING MEASURES**

|  |   |
|--|---|
| Extinguishing media                                  | Suitable: Compatible with dry chemical powder, foam, carbon dioxide (CO <sub>2</sub> ) and water fog.<br>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 <sub>2</sub> ) 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.  |

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**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.  |

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|                                      |   |
|--------------------------------------|---|
| 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.   |
| <b>Storage</b>                       |   |
| 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.  |
| <b>Packaging materials</b>           |   |
| 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.

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|                          |  |
|--------------------------|--|
| 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, transparent, or colored. |
| Odour   | Slight odor.                    |
| 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 <sup>3</sup> .        |
| 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.                  |

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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 can form acrylates. |

**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.<br>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.                          |

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|--|---|
| 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. |
|---|--|

**SECTION 14: TRANSPORT INFORMATION****International regulations**

|      |  |
|------|--|
| Land | UN – “United Nations”<br>Recommendations on the TRANSPORT OF DANGEROUS GOODS.<br>Model Regulations |
|------|--|



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| <b>Sea</b>   | IMO – International Maritime Organization<br>International Maritime Dangerous Goods Code (IMDG Code)   |
| <b>Air</b>   | IATA – International Air Transport Association<br>Dangerous Goods Regulation (DGR)   |
| <b>UN number</b>   | Not classified as hazardous to transport.  |
| <b>Transport in bulk according to MARPOL 73/78, Annex II, and the IBC Code</b> | Consult regulations:<br>- 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;<br>- 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. |
| <b>Special precautions</b>   | 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 January, 2021.

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

ACGIH. AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2019.

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

ECHEM. The Global Portal to Information on Chemical Substances OECD. Available in: <[https://www.echemportal.org/echemportal/substancesearch/substancesearch\\_execute.action](https://www.echemportal.org/echemportal/substancesearch/substancesearch_execute.action)>. Access in: jan. 2021.

Ficha de Informações de Segurança de Produtos Químicos – FISPQ. Chapa CT XT. Revision: 04. Date: 23.12.2020.

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: jan. 2021.

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

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

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