

**SAFETY DATA SHEET****Product:** INHIBITED GLACIAL METHACRYLIC ACID - GMAA

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

Identification of the product	INHIBITED GLACIAL METHACRYLIC ACID – GMAA.
Recommended uses	Industrial use.
Restrictions on use	Not recommended for other uses.
Company	PROQUIGEL QUÍMICA S/A.
Address	Fazenda Caroba s/n, Candeias - BA - CEP: 43.813-300, Brazil.
Telephone number	55 (71) 3878-6633.
Emergency telephone number	0800 110 8270 Pró-Química.

**SECTION 2: HAZARDS IDENTIFICATION**


Most important hazards	Combustible liquid. Harmful if swallowed and inhaled. Toxic in contact with skin. Causes severe blistering, peeling, and painful skin burns and severe eye damage with burning, tearing, and pain. May cause respiratory irritation when coughing and sneezing. Harmful to aquatic life.
<b>Product effects</b>	
Adverse effects to the human health	Harmful if swallowed and inhaled. Toxic in contact with skin. Causes severe blistering, peeling, and painful skin burns and severe eye damage with burning, tearing, and pain. May cause respiratory irritation when coughing and sneezing.
Environmental effects	Harmful to aquatic life.
Physical and chemical hazards	Combustible liquid
Chemical product-specific	Sparks can ignite liquids and vapors. It may cause a fire or an

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hazards	explosion.
Important symptoms	Common symptoms after exposure: cough, burning sensation in the airways, shortness of breath, shortness of breath. Redness, burning, pain, and blistering of the skin. Loss of vision, severe and deep burns to the eyes. Abdominal cramps, burning sensation, weakness.
Classification of the chemical product	Flammable liquids – Category 4. Acute Toxicity – Oral – Category 4. Acute Toxicity – Dermal – Category 3. Acute Toxicity – Inhalation – Category 4. Skin corrosion/irritation – Category 1A. Serious eye damage/eye irritation – Category 1. Specific target organ toxicity – Single exposure – Category 3. Hazardous to the aquatic environment, short-term (Acute) – Category 3.
Classification system adopted	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations, 2019.
<b>Adequate labeling elements</b>	
Pictograms	
Signal word	DANGER
Hazard statement(s)	H227 Combustible liquid. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H332 Harmful if inhaled.

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H335 May cause respiratory irritation.

H402 Harmful to aquatic life.

**PREVENTION**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Avoid breathing mist and vapours.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

**RESPONSE TO EMERGENCIES**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Precautionary statement(s)

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P361 + P364 Take off immediately all contaminated clothing and wash if before reuse.

P370 + P378 In case of fire: Use foam, dry chemical and carbon dioxide (CO<sub>2</sub>) for extinguishing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water or shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**STORAGE**

P405 Store locked up.

P403 + P233 Store in a well-ventilated place. Keep container tightly

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closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

**DISPOSAL**

P501 Dispose of contents and container in accordance with current regulations.

Outline of an anticipated emergency

COMBUSTIBLE LIQUID AND HAZARDOUS FOR HUMAN HEALTH AND AQUATIC ENVIRONMENT.

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

Systematic chemical or trivial name

Inhibited glacial methacrylic acid.

Common or generic name

Methacrylic acid, 2-methyl-2-propenoic acid; GMAA.

CAS Number

79-41-4.

Impurities and stabilizing additives contributing to the hazard

No impurities which contribute to hazardous.

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

Inhalation

Take the victim to a ventilated place and keep him at rest in a position that does not impede breathing. If you feel unwell, contact a POISON CENTER or doctor. Take this SDS.

Skin contact

IN CASE OF CONTACT WITH SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water or take a shower. Contact a POISON CENTER or doctor immediately. Take this SDS.

Eye contact:

Immediately flush the eyes with a sufficient amount of water, holding

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	<p>the eyelids open, for several minutes. If you wear contact lenses, remove them, if easy, and rinse again. See a doctor. Take this SDS.</p>
Ingestion	<p>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 POISON CENTER or a doctor. Take this SDS.</p>
Anticipated acute effects and/or anticipated delayed effects	<p>Harmful if swallowed and inhaled. Toxic in contact with skin. Causes severe blistering, peeling, and painful skin burns and severe eye damage with burning, tearing, and pain. May cause respiratory irritation when coughing and sneezing. Common symptoms after exposure: cough, burning sensation in the airways, shortness of breath, shortness of breath. Redness, burning, pain, and blistering of the skin. Loss of vision, severe and deep burns to the eyes. Abdominal cramps, burning sensation, weakness.</p>
Most important symptoms/effects	<p>Common symptoms after exposure: cough, burning sensation in the airways, shortness of breath, shortness of breath. Redness, burning, pain, and blistering of the skin. Loss of vision, severe and deep burns to the eyes. Abdominal cramps, burning sensation, weakness.</p>
Protection of first aiders and/or special notes to a physician	<p>Avoid contact with the product when helping the victim. Exposure treatment should be directed at controlling the symptoms and the clinical condition of the patient. In case of skin contact, do not rub the affected area.</p>

**SECTION 5: FIRE-FIGHTING MEASURES**

Extinguishing media

Suitable: Use carbon dioxide (CO<sub>2</sub>), water spray, alcohol-resistant foam, or dry chemicals.

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	Not recommended: Water directly on the burning liquid.
Specific hazards arising from the chemical product	Very dangerous when exposed to excessive heat or other sources of ignition such as: sparks, open flames or flames from matches and cigarettes, welding operations, pilot lamps and electric motors. Static charge can build up by flow or agitation. Vapors from heated liquid can be ignited by static discharge. Vapors can be denser than air and tend to collect in low-lying or confined areas, such as manholes and basements. They can travel long distances causing the flame to recede or new sources of fire, both in open and closed environments. Containers can explode if heated. Thermal decomposition or combustion can release carbon oxides.
Specific extinguishing methods	Fight fire as much as possible or control nozzles. If possible, fight the fire downwind. Do not extinguish fire before containing leak. Containers and tanks involved in the fire must be cooled with water mist.
Special equipment for the protection of firefighters	Self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions	Avoid sparks or flames. No Smoking. Do not touch damaged containers or spilled material without wearing suitable clothing. Avoid exposure to the product. Use personal protective equipment as described in section 8.
Protective equipment:	Use protective equipment as described in Section 8.
Emergency procedures	Wear full PPE with safety glasses or face shield, suitable protective clothing, safety shoes, and neoprene, butyl rubber, and polyethylene gloves. Isolate spills from sources of ignition. Evacuate the area within a radius of at least 50 meters. Keep unauthorized people away from

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	the area. Stop leak if it can be done without risk. In case of large leaks, where the exposure is great, it is recommended to use a respiratory protection mask with filter against mists and vapors.
Environmental precautions	Prevent the product from reaching the ground and water courses. Inform the relevant authorities if the product has caused environmental contamination (if it has reached water courses or if it has contaminated the soil or vegetation).
Methods and materials for containment	Stop leak if without risk. Contain spilled product with sand, earth, or vermiculite dikes and transfer to a suitable container, which should be properly labeled.
Methods and materials for cleaning up	To clean the floor and all objects contaminated by this product, use an appropriate product. Collect the product remains with inert material. The water used to clean the place must be collected for later disposal, its incineration is recommended. For the final destination, proceed in accordance with Section 13 of this SDS.
Secondary disaster prevention measures	The same actions are recommended for large and small leaks of this product.

**SECTION 7: HANDLING AND STORAGE****Handling**

Precautions for safe handling	Handle in a ventilated area or with a general local exhaust / ventilation system. Avoid the formation of mists and vapors. Do not mix with incompatible materials. Avoid exposure to the product. Wear personal protective equipment as described in Section 8. Use of the product is restricted to professionals. Caution: avoid exposure; obtain special instructions before use.
Technical measures for prevention of exposure of the	Use personal protective equipment as described in Section 8.

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handler	
Technical measures for prevention of fire and explosion	Keep away from heat, sparks, open flames, and hot surfaces. - No Smoking. Keep the container tightly closed. Ground the container ship and the product receiver during transfers. Use only non-sparking tools. Avoid the accumulation of electrostatic charges. Use explosion-proof electrical, ventilation, and lighting equipment.
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 in a cool, dry place with adequate ventilation. Keep away from open flames, high temperatures and incompatible materials. Store in its original unopened packaging. Methacrylic acid freezes at 15°C. improper defrosting can cause violent polymerization. Thawing frozen drums should be done by placing them in ovens at a temperature of up to 40°C, this process will allow the acid to melt slowly in up to 48 hours. Take preventive measures against static discharge. Fill the container approximately 90% only because oxygen (air) is needed for stabilization. With large storage containers, make sure the supply of oxygen (air) is sufficient to ensure stability. Storage temperature: 18 to 35°C. the ideal storage temperature is 20-25°C. Depending on weather conditions, temperatures of up to 40°C may apply during transport. This product can react dangerously with some incompatible materials as described in Section 10.
Technical measures	Keep away from high temperatures, ignition sources and incompatible materials.



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Incompatible substances and mixtures      Acids and oxidizing agents, bases, peroxides, heavy metal ions, ammonia, alkali metals, alkaline earth metals, various metal powders.

**Packaging materials**

Recommended material      Similar to the original packaging.

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

Occupational exposure limit	Chemical or common name	TLV – TWA (ACGIH, 2019)	PEL – TWA (OSHA, 2019)	REL – TWA (NIOSH, 2019)
	Methacrylic acid	20 ppm	N.E.	N.E.

N.E. Not established.

Biological limit      Not established.

Engineering controls measures      Promote mechanical ventilation and a direct exhaust system to the outside environment. These measures help to reduce product exposure. Maintain atmospheric concentrations, of the constituents of the product, below the occupational exposure limits indicated.

**Appropriate personal protective equipment**

Respiratory protection      Respiratory protection masks with filter against organic gases or autonomous mask. Depending on the inhalation hazard of the product, a risk assessment must be carried out to adequately define respiratory protection in light of the conditions of use of the product.

Hand protection      Neoprene, butyl rubber and polyethylene gloves to avoid skin contact.

Eye protection      Safety glasses and face shield.

Skin and body protection      Suitable safety clothing and closed shoes. The material used should be waterproof.

Special precautions      Not established.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Transparent and colorless liquid.
Odour	Irritating.
pH	2.0 - 2.2 (100 g/L in water at 20°C).
Melting point/freezing point	15°C.
Boiling point, initial boiling, and boiling range	161°C.
Flashpoint	77°C (open cup). 68°C (closed cup).
Upper/lower flammability or explosive limits	Major: 8.7%. Lower: 1.6%.
Vapour pressure	0.89 mbar at 20°C.
Vapour density	2.97 (air = 1.0)..
Relative density	1.014 g / cm <sup>3</sup> (20 ° C).
Solubility(ies)	Miscible in water and alcohol.
n-octanol/water partition coefficient	Log kow: 0.93.
Auto-ignition temperature	365°C.
Decomposition temperature	Not available.
Odour threshold	Not available.
Evaporation rate	Not available.
Flammability	Flammable liquid.
Viscosity	1.4 mPa.s at 20°C.
Other information	Specific heat 1.86 kJ/kg K at 20°C. Refractive index: 1,426 - 1,430 at 20°C.

**SECTION 10: STABILITY AND REACTIVITY**

Chemical stability	Stable product under normal conditions of temperature and pressure
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	<p>in the presence of air between 18 and 25°C. It is used as a stabilizer: Mequinol, hydroquinone or hydroquinone mono methyl ether.</p> <p>Heat release polymerization can occur in the presence of radical-forming substances (eg., peroxides), reducing substances, and / or heavy metal ions. The product reacts violently with the possibility of explosion in contact with alkali metals, alkaline earth metals, various metal powders, strong bases and ammonia, light, heat.</p>
Hazardous reactions	Violent reactions with bases. Reacts vigorously with water producing heat. Contact with metals and water releases hydrogen. Reactions with organic substances.
Conditions to avoid	High temperatures, heat, friction and contact with incompatible materials.
Incompatible materials	Acids and oxidizing agents, bases, peroxides, heavy metal ions, ammonia, alkali metals, alkaline earth metals, various metal powders.
Hazardous decomposition products	Thermal decomposition can release to carbon monoxide and dioxide.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Acute toxicity	<p>Harmful if swallowed and inhaled. Toxic in contact with skin.</p> <p>LD<sub>50</sub> (oral, rats): 1320 mg/kg.</p> <p>LD<sub>50</sub> (dermal, rabbits): 500 mg/kg.</p> <p>LC<sub>50</sub> (inhalation, rats, 4 h, mist): 7.1 mg/L.</p>
Skin irritation/corrosion	<p>Causes severe burns to the skin with blisters, peeling and pain.</p> <p>Test on rabbits (OECD 404), caused severe corrosion, with formation of bubbles.</p>
Eye damage/irritation	<p>Causes serious eye damage with burning, tearing and pain.</p> <p>The test in rabbits caused irreversible damage to the eyes, severe effects of the cornea on the conjunctiva, which persist until the 7th</p>

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	day.
Respiratory or skin sensitization	The product is not expected to cause respiratory or skin sensitization. The skin sensitization test in guinea pigs showed no sensitizing potential.
Reproductive cell mutagenicity	The product is not expected to cause germ cell mutagenicity. In vivo and in vitro tests were negative for mutagenicity.
Carcinogenicity	The product is not expected to cause cancer. A study carried out with an analogous substance, with mice and rats, orally and inhaled, for 2 years, the results were negative.
Reproductive toxicity	The product is not expected to cause reproductive toxicity. In a study with an analogous substance, no reproductive toxicity was observed in experimental animals.
Specific target organ toxicity – single exposure	May cause respiratory irritation when coughing and sneezing.
Specific target organ toxicity – repeated exposure	The product is not expected to cause specific target organ toxicity from repeated exposure. In a 90-day subchronic inhalation study, there was no evidence of serious or irreversible organ effects other than respiratory tract tissue irritation greater than 350 ppm (1,232 mg/m <sup>3</sup> ).
Aspiration hazard	The product is not expected to present an aspiration hazard.
Toxicokinetics, metabolism and distribution	Methacrylic acid is easily absorbed through the mucous membranes of the lungs and the gastrointestinal tract and the skin; and is rapidly distributed to all major tissues. Methacrylates are metabolized through two basic pathways, hydrolysis and conjugation. Methacrylic acid is a physiological substrate of the valine pathway and is metabolized to CO <sub>2</sub> by two substrates of the citric acid cycle, methylmalonyl and succinyl-CoA.

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

Ecotoxicity	Harmful to aquatic life. CE <sub>50</sub> ( <i>Selenastrum capricornutum</i> , 72h): 45 mg/L. CL <sub>50</sub> ( <i>Oncorhynchus mykiss</i> , 96h): 85 mg/L. CE <sub>50</sub> ( <i>Daphnia magna</i> , 48 h): 100 - 180 mg/L. CE <sub>50</sub> ( <i>Selenastrum</i> , 72h): 14 mg/L. NOEC ( <i>Danio rerio</i> , 35 días): 10 mg/L. NOEC ( <i>Daphnia magna</i> , 21 días): 53 mg/L.
Persistence and degradability	The product is expected to show rapid degradation and low persistence. Biodegradability rate: 86% in 28 days.
Bioaccumulative potential	It has a low potential for bioaccumulation in aquatic organisms. BCF: 2.27. Log kow: 0.93.
Mobility in soil	Great mobility is expected on the ground. Koc: 8.19 L/kg.
Other adverse effects	Due to the acid nature of the product, it can cause changes in the environmental compartments, causing damage to aquatic organisms.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Methods of disposal to the chemical product, product waste and/or contaminated container and/or packaging	Treatment and disposal must be evaluated specifically for each product. Federal, state and local laws should be consulted. Keep the rest of the product in its original container and properly closed. Disposal must be carried out as intended for the product. Do not reuse empty containers. They may contain traces of the product and must be closed and sent for proper disposal as required for the product.  This substance, when discarded or not used, is considered a
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hazardous waste under federal regulations. Methacrylic acid is considered highly toxic. Disposal should only be carried out in incineration plants or industrial landfills in accordance with local legislation. Chemical additions, processing, or any other alteration of this material may result in incomplete, inaccurate, or inappropriate waste management information.

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

<b>Land</b>	UN – “United Nations” Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations
UN number	2531
UN proper shipping name	METHACRYLIC ACID, STABILIZED
Transport hazard class(es)	8
Subsidiary risk	N.A.
Packing group	II
<b>Sea</b>	IMO – International Maritime Organization International Maritime Dangerous Goods Code (IMDG Code)
UN number	2531
UN proper shipping name	METHACRYLIC ACID, STABILIZED
Transport hazard class(es)	8
Subsidiary risk	N.A.
Packing group	II
Environmental hazards	The product is not considered a marine pollutant.
EmS	F-A, S-B.
<b>Air</b>	IATA – International Air Transport Association

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	Dangerous Goods Regulation (DGR)
UN number	2531
UN proper shipping name	METHACRYLIC ACID, STABILIZED
Transport hazard class(es)	8
Packing group	II
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

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chemical.

SDS elaborated June 2021.

**Abbreviations:**

**ACGIH** – American Conference of Governmental Industrial Hygienists

**AIHA** – American Industrial Hygiene Association

**BCF** – Bioconcentration Factor

**CAS** – Chemical Abstracts Service

**LC<sub>50</sub>** – Lethal Concentration 50%

**LD<sub>50</sub>** – Lethal Dose 50%

**ERPG** - Emergency Response Planning Guidelines

**LEL** – Lower Explosive Limit

**UEL** – Upper Explosive Limit

**NIOSH** – National Institute of Occupational Safety and Health

**OSHA** – Occupational Safety & Health Administration

**PEL** – Permissible Exposure Limit

**REL** – Recommended Exposure Limit

**STEL** – Short Term Exposure Limit

**TLV** – Threshold Limit Value

**TWA** – Time Weighted Average

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