1 – PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identification

Product name: Imacarbo READY
Other ways of identification: Polyacrylic Acid

INCI NAME: CARBOMER CAS NUMBER: 9003 01 4
AMINOMETHYL PROPANOL CAS NUMBER:124-68-5
Recommended uses: Cosmetics and industrial
Restrictions on use: Lack of relevant records

1.2. Company identification

Company/Supplier: Imagraf Chemical Industry Ltda.
Address: Rua D'Oro, 201, JD. Cruzeiro, Mairinque - SP, CEP 18120-000, Brazil
Telephone: +55 (11) 4246-0240
National sales: vendas@imagrafbrasil.com.br
International: mcgraaff@imagrafbrasil.com.br

Emergency telephone number: +55 (11) 4246-0240

2 – HAZARD IDENTIFICATION

2.1 GHS classification of the substance/mixture or other national or regional information;
Chemical not classified as hazardous according to ABNT NBR 14725:2023

2.2 GHS labeling elements
Pictogram: Not applicable

Hazard warnings:	**Not applicable**
Word of warning:	**Not applicable**
Precautionary statement:	**P261 Avoid breathing dust/fume/gas/mist/vapours/spray.** **P262 Do not get in eyes, on skin, or on clothing. P102 Keep out of reach of children.** **P264 Wash thoroughly after handling.** **P280 Wear protective gloves/protective clothing/eye protection/face protection.** **P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. If wearing contact lenses, remove them if easy to do and continue rinsing.** **P337 + P313 If eye irritation persists: Get medical advice/ attention. P501 Dispose of contents/container in accordance with national regulation**
2.3 Other hazards that do not result in in one GHS classification:	**May form combustible concentrations of dust in the air.**

3 – COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Substance:

Not applicable

3.2 Mixture:

Chemical or common name: Acrylic Homopolymer

NAME INCI	CAS NUMBER	CONCENTRATION
Ethyl acetate	141-78-6	<0.45%
Cyclohexane	110-82-7	<0.45%
Acrylic Acid	79-10-7	<0.10%

4 – FIRST AID MEASURES

4.1 Description of necessary measures for exposure routes

Inhalation: Remove the victim to fresh air immediately; if breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration and continue until the victim regains breathing. Seek medical attention immediately.

Skin contact: Wash the area with soap and water. If skin irritation occurs, seek medical attention immediately.

Eye contact: Water (moisture) causes this product to swell, forming a gelatinous film that is difficult to remove. Therefore, in case of contact, immediately flush your eyes with 1% saline solution for five minutes, keeping your eyelids open. If saline solution is not available, rinse with plenty of clean water for 15 minutes. It is extremely important to seek medical attention immediately.

Additionally, any material that comes into contact with the eyes should be rinsed immediately. If possible, remove contact lenses before rinsing.

Ingestion: If the product is ingested, do not induce vomiting. Keep the person calm and at rest. Seek medical attention immediately. Follow the professional's instructions.

4.2 Most important symptoms, acute or late: Symptoms of exposure may appear immediately or may be delayed. For more information, see Section 11.

4.3 Indication of immediate medical attention special treatments and if necessary: Proceed with treatment based on the symptoms presented and seek medical attention.

5 – FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable: Use water spray, dry chemical agents, alcohol-resistant foam, or carbon dioxide. Carbon dioxide (CO2) may not be effective on large fires.

Unsuitable: For this mixture, there are no limitations on extinguishing agents.

5.2 Specific hazards arising from the product

Mixture: This product is susceptible to dust explosions and is classified as Dust Explosion Class ST1. It can form explosive mixtures with air and dust. Fine particles suspended in the air can ignite or explode if exposed to ignition sources such as electrostatic discharges, sparks, or open flames. See Section 10 for details.

Provide guidance on fire-fighting precautions when handling the product. To prevent hazards, it's crucial to implement standard safety measures when handling finely divided organic powders, minimizing the presence of dust in the environment. When adding this product to a solvent, it's important to ensure handling practices that prevent the formation of flammable vapors.
Although the solid does not immediately release flammable vapors, careful management and safe practices are essential to prevent accidents.

5.3 Protective equipment

Individual: The use of Personal Protective Equipment (PPE) is essential. See section 8.

Firefighter team: Wear self-contained breathing apparatus and protective clothing

6 – CONTROL MEASURES FOR SPILLS OR LEAKS

Due to the small quantities involved, spills or leaks should not pose a significant problem. Sweep up the material. Place the residue in closed containers for proper disposal.

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 Personal precautions: Avoid generating dust during cleanup. Sweep or vacuum the spill and collect it in a suitable container for disposal. Clean the surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

6.1.2 Protective equipment: The use of Personal Protective Equipment (PPE) is essential. For specific PPE recommendations, see section 8.

6.1.3 Emergency service procedure: Keep unnecessary personnel away. See section 8 of this SDS.

6.2 Environmental precautions; methods and materials for containment and cleanup

Environment:

Prevent the product from entering sewers or waterways. Take measures to prevent release into the environment and prevent contamination of water sources. In the event of a significant spill, notify the environmental manager. If possible, contain any additional spillage to increase safety.

Methods and materials for containment and cleaning:

Collect spilled product for recycling or safe disposal.
Use methods that prevent dust formation, such as wet sweeping or vacuuming with a particle filter. Place the waste in appropriate, clearly labeled chemical waste containers and seal them tightly. Clean the area with detergent, paying attention to the material's slipperiness. Prevent entry into sewers and waterways, and dispose of the collected material in accordance with local, state, and federal environmental regulations.

7 – HANDLING AND STORAGE

7.1 Handling:

Use personal protective equipment (PPE). Handle the product in a well-ventilated area. Avoid direct contact with the product; wear gloves and full-body clothing when handling this product.
Wash contaminated clothing before reuse. For more information, see SECTION 8.

7.2 Secure storage:

Store in a dry place. Keep containers closed when not in use. Store away from incompatible materials.

8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 Control parameters:

Occupational Exposure Limit Values

Chemical name	Type	Exposure limit values	
Cycloxean	TWA 235 ppm 820 mg/m3		Brazil. OELs (Decree No. 3214, NR-15, Annex 11 & NR-09), updated according to ACGIH, as amended (03 2013)

Other Exposure Limits:

Chemical name	Type	Exposure limit values	
2-propenoic acid, homopolymer	TWA 0.05 mg/m3		

8.2 Engineering control measures:

Excessive dust generation must be minimized to avoid the risk of explosion (the lowest explosion concentration is 130 g/m³).
To prevent dust explosion, use bonding and grounding in operations capable of generating static electricity.

8.3 Personal protective measures, such as personal protective equipment.

Personal protective measures	
Eye/face protection:	**The use of safety glasses with side protection is recommended.**
Skin protection:	**Wear neoprene or nitrile gloves. Practice good industrial hygiene to avoid skin contact. If contact with the material is possible, wear chemical protective gloves. A long-sleeved shirt is recommended.**
Respiratory protection:	**Use respiratory protection in accordance with all applicable regulations.**
Thermal hazards:	**Information not available**
Special precautions:	**Use recommended safety equipment.** **Keep an eye wash station and emergency shower at the handling location.** **Gloves, eye protection and a dust respirator are recommended when handling.**
Personal hygiene:	**Wash after handling the product, and before eating, drinking, or smoking. Wash work clothes and shoes frequently to remove contaminants. Discard any footwear that cannot be cleaned.**

9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	**Solid**
Appearance:	**Dust** **Light**
Color:	**Acid White**
Odor: Melting point:	**95ºC**
Boiling point:	**Not applicable**
Flammability:	**Not applicable**
Explosive limits	
Lower and Upper Flammability Limits/Limits: Flash	**0.13 oz/ft³ (130g/cm³)**
Point: Autoignition	**100ºC**
Temperature: Decomposition	**Approximately 480°C**
Temperature: pH:	
Kinematic Viscosity:	**No data available 2.5 -3.5**
Solubility: Percent Solids:	**Not available**
Percent Volatiles:	**miscible in water and solvent**
Octanol/Water Partition	**>98% (Percentage by Weight) <**
Coefficient (Log Kow Value):	**2% (Percentage by Weight)**
Dust Explosion Description:	
KST Number (Explosion Severity):	
Vapor	**Not applicable**
Pressure: Density or Relative Density: Bulk Density:	
	157 – 193 m.b_/s
	No data available
	1.4g/cm³
	< 0.24g/ml (25°C)

Relative vapor density:	**No data available**
Particle characteristics:	**No data available**

10 – Stability and reactivity

Chemical stability:	**Product is stable under normal temperature and pressure conditions.**
Reactivity:	**No reactivity is expected under normal temperature and pressure conditions.**
Possibility of hazardous reactions:	*Acrylic acid:* **Risk of explosion when in contact with oxidizing agents, oxygen, peroxides, and polymerization initiators. Polymerizes when in contact with alkali metal hydroxide, amines, ammonia, and sulfuric acid.** *Ethyl acetate:* **Reacts dangerously with strong oxidizing agents and chlorosulfonic acid, and may start a fire or explosion.** *Cyclohexane:* **May react explosively with nitrogen tetroxide when heated.**
Conditions to avoid:	**High temperature, static discharge, humidity.**
Incompatible materials: -	**Acids, oxidizing agents, alkalis, spontaneously combustible materials, radioactive materials, nitrates, strong oxidants, and nitrogen tetroxide.**
Hazardous decomposition products:	**Thermal decomposition or combustion can generate irritating smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.**

11 – TOXICOLOGICAL INFORMATION

Acute toxicity:	**Product not classified as acutely toxic by oral and dermal route.** **Oral ETAm: 360.606 mg/kg.** **Dermal ETAm: > 5000 mg/kg.**
Corrosion/irritation of Skin:	**Not classified for skin corrosion/irritation** **Aminomethyl Propanol causes skin irritation.**
Serious eye damage/ eye irritation:	**Not classified for serious eye damage/eye irritation.** **The substance Aminomethyl Propanol causes severe eye irritation**
Respiratory or skin sensitization:	**Respiratory or skin sensitization is not expected.** **The substance Aminomethyl Propanol Causes skin irritation.**
Germ cell mutagenicity:	**It is not expected to show mutagenicity in germ cells.**
Carcinogenicity:	**Not expected to be carcinogenic.**
Reproductive toxicity:	**It is not expected to present reproductive toxicity.**
Specific target organ toxicity – single exposure:	**Not expected to show specific target organ toxicity by single exposure.**

Specific target organ toxicity – repeated exposure: **Not expected to show specific target organ toxicity upon repeated exposure.**

Aspiration hazard: **Not expected to present an aspiration hazard.**

12 – ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic organisms, with long-lasting effects

Information regarding 2-propenoic acid homopolymer: NOEC (Raphidocelis subcapitata, 72h): 0.03 mg/L; ECr50 (Raphidocelis subcapitata, 72 h): 0.75 mg/L; LC50 (Oncorhynchus mykiss, 96 h): 27 mg/L; EC50 (Daphnia magna, 48 h): 47 mg/L.
Cyclohexane:
EC50 (Daphnia magna, 48 h): 0.9 mg/L; LC50 (Lepomis macrochirus, 96 h): 34.72 mg/L. Acrylic acid: NOEC (Daphnia magna, 21d): > 1 mg/L; NOEC (Desmodesmus subspicatus, 72h): 0.008 mg/L; ECr50 (Desmodesmus subspicatus, 72 h): 0.13 mg/L; LC50 (Oncorhynchus mykiss, 96 h): 27 mg/L; EC50 (Daphnia magna, 48 h): 95 mg/L.

Persistence and degradability: **It is not expected to show persistence and degradability**

Bioaccumulation potential: **It has low bioaccumulative potential in aquatic organisms.**

Information regarding Ethyl acetate: BCF: 3.2 log Kow: 0.73 Cyclohexane: BCF: 31 to 129 log Kow: 3.44 Acrylic acid: log Kow: 0.46.

Mobility in soil: **No data available**

Other adverse effects: **No** other environmental effects are known .

13 – CONSIDERATIONS ON FINAL DESTINATION

Waste treatment methods: **Disposal of this product, solutions, and any by-products must at all times comply with the requirements of environmental protection legislation and compliance with applicable federal, state, municipal, and local regulations.**

Packaging disposal: **They must be disposed of safely. Take care when handling empty containers that have not been cleaned or rinsed. Empty containers may retain some product residue. Avoid dispersion and contact with soil, waterways, drains, and sewers.**

Attention: **Dispose of the contents/container according to the licensed collector's sorting instructions. Waste generation should be**

avoided or minimized whenever possible. Waste may contain substances that are harmful to the environment and human health. Therefore, it is important that this waste is treated appropriately, following environmental standards.

14 – TRANSPORTATION INFORMATION

National and international regulations

Terrestrial: ANTT - National Land Transportation Agency: Resolution No. 5,998, of November 3, 2022: Updates the Regulation for the Road Transportation of Dangerous Products, approves its Supplementary Instructions, and provides other measures.

UN number: Not classified as dangerous for land transport.

Environmental Hazard: The product is not considered hazardous to the environment for land transport.

Waterway: DPC - Directorate of Ports and Coasts (Water Transport) Brazilian). Maritime Authority Regulations: NORMAM 201/DPC: Vessels Used in Navigation on the Open Sea.

NORMAM 202/DPC: Vessels Used in Navigation Interior.

NORMAM 321/DPC: Material Approval.

IMO - International Maritime Organization: IMDG Code - International Maritime Dangerous Goods Code.

UN Number: Not classified as dangerous for water transport.

Environmental Hazard: It is not considered a marine pollutant for transport.

Air: ANAC - National Civil Aviation Agency: Resolution No. 714, of April 26, 2023. RBAC ICAO (International Civil Aviation Organization): IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.

UN Number: Not classified as dangerous for air transport

. The product is not considered hazardous to the environment for air transport.

Environmental Hazard:

Bulk transport in accordance with Annex II of the MARPOL 73/78 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 1978 Protocol relating thereto, consolidated edition. IMO, London, 2006.

• International Maritime Organization: IBC Code: International Code for the Construction and Equipment of the Maritime Carriage of Dangerous Chemicals in Bulk: With Standards and Guidelines Relevant to the Code. IMO, London, 2007.

15 – REGULATORY INFORMATION

Internal company data and other publicly available resources (National Regulations and International)

15.1 SDS (Safety Data Sheet) generated in accordance with the criteria of NBR14725:2023

Revision 02: Update according to NBR 14725:2023 of ABNT (Brazilian Association of Technical Standards)

15.2 Specific safety, health and environmental regulations for the chemical.

Following the criteria established by the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS). See section 2 of the SDS for information on the GHS hazard classes applicable to this product.

15.3 Specific Safety, Health and Environmental Assessments of Chemical Safety

USA (TSCA)	**All components of this product comply with the TSCA inventory list.**
European Union (REACH)	**All components of this product comply with the European Union positive list (REACH)**
Japan (ENCS)	**All components of this product comply with Japanese Chemical Substances Control Laws.**
Australia (AICS)	**All components comply with notified chemical requirements in Australia.**
New Zealand (NZIoC)	**All components comply with New Zealand chemical notification requirements.**
Canada (DSL/NDSL)	**All substances contained in this product comply with the Canadian Environmental Protection Act and are either on the Domestic Substances List (DSL) or exempt.**
Switzerland (SWISS)	**All components comply with the Environmentally Hazardous Substances Ordinance in Switzerland.**
Korea (ECL)	**All components comply with Korean Laws.**
Philippines (PICCS)	**All components comply with the Philippines Nuclear Waste and Hazardous and Toxic Substances Control Act of 1990 (RA 6969).**
China (IECSC)	**All components of this product are listed in the List of Existing Chemical Substances in China.**
Taiwan (TCSCA)	

All components of this product are listed in Taiwan's inventory.

16 – OTHER INFORMATION

16.1 Important bibliographical references and sources of data used: Internal company data and other publicly available resources (National and International Regulations)

16.2 Lists of abbreviations and acronyms
ABNT: Brazilian Association of Technical Standards

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ANTAQ: National Waterway Transportation Agency

ANTT: National Land Transportation Agency

CAS: Chemical Abstract Service

CE: European Conformity

EC50: Effective concentration 50%

LC50: Lethal concentration 50%

CLP/ECHA: Classification of Substances and Mixtures

LD50: Lethal dose 50%

GHS: Globally Harmonized System

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Transport of Dangerous Goods

NBR: Brazilian Technical Standard

UN: (United Nations)

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

TWA: Time-compensated average (exposure for an 8-hour workday)

EU: European Union

This information is based on our current knowledge. However, this does not constitute a guarantee.

for any specific characteristics of the product and will not establish a valid contractual relationship.

16.3 For additional information, please contact the supplier.

Responsible Chemist: Vitor B. Martins
CRQ:044118619

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