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1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identification

Product name: Imacarbo CLEAR PLUS

INCI NAME: Carbomer

Other ways of identification: Polyacrylic Acid

CAS NUMBER: 9003 01 4

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 Classification of the substance or mixture:

Chemical product 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 a GHS

classification: May form combustible concentrations of dust in the air.

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3 – COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Substances:

Not applicable

3.2 Mixing

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%

4.1 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 be delayed. For more information, see Section 11.

4.3 Indication of immediate medical attention and special treatments if necessary.

Proceed with treatment based on the symptoms presented and seek medical attention.

5 – FIRE FIGHTING MEASURES

General Fire Hazards:

Avoid using hoses or methods that could disperse dust into the air, creating a risk of explosion.

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5.1 Suitable extinguishing media:

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 substance/mixture, there are no limitations on extinguishing agents.

5.2 Specific hazards arising from the substance or mixture

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.

**Special Procedures
Fire Fighting:**

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 doesn't immediately release flammable vapors, careful management and safe practices are essential to avoid accidents.

5.3 Protective equipment

Personal protection:

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 Protective equipment:

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

6.1.2 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.

6.1.3 For emergency service personnel:

Keep unnecessary personnel away. See section 8 of the SDS

6.2 Environmental precautions:

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.

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6.3 Methods and materials for containment and cleanup.

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

Obtain specific instructions before use.

7.1 Personal protections for safe 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 Storage conditions:

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 Workplace control parameters

Occupational Exposure Limit Values

Does not contain substances with occupational exposure limit values.

Other Exposure Limits:

Product:

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 during handling.

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Personal hygiene:

Wash after handling the product, 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
Aspect:	Dust
Color:	White
Odor:	Mild Acid
pH:	5.0 to 7.8 (1% in water) 1.4
Relative density:	(20°C)
Solubility in Water:	Soluble
Bulk density:	<0.24 g/ml (25°C)
Solid percentage:	>98% (Percent by Weight) 786 bar/s
Maximum rate of pressure rise:	(500 g/m3)
Percentage of volatiles:	<2% (percent by weight) 0.13 oz/ft3
Lower dust explosion limit:	(130g/cm³)
KST number (explosion severity):	157 – 193 m.b_/s
Minimum ignition energy:	>500 mJ
Minimum ignition temperature:	Approximately 480°C
Maximum rate of pressure rise:	5,500 PSI/s (0.5 oz/ft3)
Maximum explosion pressure:	70 PSI (0.5 oz/ft3)
Volume resistivity:	7.18x 10+16 ohm-cm

10- STABILITY AND REACTIVITY

10.1 Reactivity:	No data available
10.2 Chemical stability:	Product is stable under normal conditions
10.3 Possibility of hazardous reaction:	No data available
10.4 Conditions to Avoid:	Static discharge, humidity, heat
10.5 Incompatible materials:	Strong oxidants
10.6 Hazardous decomposition products:	Thermal decomposition or combustion can generate irritating smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

11 – TOXICOLOGICAL INFORMATION

11.1 Acute toxicity:	Not classified
11.2 Skin corrosion/irritation:	Causes skin irritation
11.3 Serious eye damage/ eye irritation:	Causes eye irritation

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11.4 Respiratory or skin sensitization:	May cause an allergic skin reaction
11.5 Germ cell mutagenicity:	Not classified
11.6 Carcinogenicity:	Not classified
11.7 Reproductive toxicity:	Not classified
11.8. Target organ toxicity – single exposure:	Ethyl Acetate - May cause irritation of the mucous membranes and upper respiratory tract.
11.9 Specific target organ systemic toxicity - repeated exposure:	Inhalation of high concentrations of ethyl acetate causes pulmonary edema and hemorrhage in laboratory animals. Repeated exposure in rabbits caused secondary anemia with leukocytosis and hyperemia.
11.10 Aspiration hazard:	Not classified
11.11 Chronic toxicity:	No data available
11.12 Additional information:	Until the present study, the chemical, physical and toxicological properties have not been thoroughly investigated.

12 – ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Toxicity in fish: LC50 (Fish (*Lepomis macrochirus*), 96 h): 580 mg/l

Toxicity in Aquatic Invertebrates: EC50 (Water flea (*Daphnia magna*), 48 h): 174 mg/l

Plant Toxicity Aquatic: No data available

Toxicity to Microorganisms: No data available

12.2 Persistence and degradability: No data available **12.3 Bioaccumulative potential:** No data available

12.4 Mobility in soil: No data available

12.5 Additional information for the product: The product is not classified as hazardous to the environment.

13 – CONSIDERATIONS ON FINAL DESTINATION

13.1 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.

13.2 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.

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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

UN / ADR	Transport Maritime or River ANTAQ/IMDG	Transportation IATA/ICAO Air	Ground transportation (Road or Railway) ANTT/TDG:
14.1 UN number or identification number	*	*	*
14.2 UN proper	*	*	*
shipping name 14.3 Transport hazard	*	*	*
class(es)	*	*	*
14.4 Packing group 14.5 Environment	*	*	*
Hazards 14.6 Special precautions for user			
Limited quantities *Not classified as a dangerous product according to transport regulations.	*	*	*

Transport in large volumes in accordance with Annex II of MARPOL and the IBC (Bulk Container) code. Intermediate Bulk Container (none known)

OBSERVATION:

There are no known restrictions. Transportation requirements may vary depending on the mode of transport, quantity, material temperature, volume, and specific route. It is the carrier's responsibility to comply with all applicable laws, rules, and regulations regarding the transportation of the material. Preventative measures must be taken to prevent load shifting and material spills. It is essential to review classification requirements before transporting materials at elevated temperatures, ensuring compliance with all applicable regulations.

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 ABNT NBR 14725:2023
(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

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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 Regulations and International)

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

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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, it does not constitute a guarantee for any specific product characteristics and does 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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