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1. IDENTIFICATION

1.1 – Product Identification: Inorganic Adsorbent

1.2 – Identification Code: 20.017.D

1.3 – Recommended Uses: Humidity Adsorption, Wastewater Treatment

1.4 – Company Name: MJV INTERNATIONAL TRADE LLC

1.5 – Emergency Phone: CEATOX 0800-148110

2. HAZARDS IDENTIFICATION

Hazard classification according to ABNT (Brazilian Association of Technical Standards) in accordance with GHS for the Classification and Labeling of Chemicals, UN.

2.1 – Substance Classification

Hazard Classification	Category
Chronic inhalation / breathing irritation	3
Eye irritation	2B

2.2 – Labeling elements according to GHS

Pictogram:



Warning word: ATTENTION.

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Danger phrases: H319 – Causes eye irritation

H335 – May cause respiratory tract irritation

Precautionary phrases:

Prevention:

P261 – Avoid inhaling dust

P233 – Keep the container tightly closed.

P264 – Wash your hands carefully after handling.

P280 – Wear protective gloves / protective clothing / eye protection / face protection.

Emergency Response:

P301 + P310 – If swallowed, contact a Poison Control Center immediately.

P321 – Specific treatment (symptomatic).

Storage:

P403 + P310 – Store and keep in a well-ventilated place.

Disposition:

P501 – Dispose of the contents/container in appropriate places for waste/ final provision (appropriate and accredited landfill by competent bodies and or with specialized companies for incineration or other destination with the municipal and state laws of the region).

2.3 – Other hazards that do not result in classification

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There are no other dangers.

3. COMPOSITION AND INFORMATION ABOUT INGREDIENTS

3.1 – Substance: Not applicable.

3.2 – Mixture

Chemical Name:	Silica	Polydimethylsiloxane	Mixture of inorganic oxides
No. CAS	7631-86-9	70131-67-8	Not applicable.
Concentration Range:	24,40%	10,0%	37,0%
Other ingredients:	There are no other ingredients classified as dangerous in concentration above the cut-off value/ concentration limit according to ABNT NBR 14725:2023.		

4. FIRST AID ACTIONS

4.1 – Necessary first aid measures

Inhalation: Remove the victim to the fresh air. If the victim is not breathing, apply artificial respiration, managing the oxygen. Seek medical assistance, if necessary, take this SDS.

Skin contact: Wash the affected areas of the skin with water immediately after exposure. Remove and wash contaminated clothes. Seek medical assistance, if necessary, take this SDS.

Eye contact: Immediately wash the affected eyes for at least 15 minutes in running water with open eyelids. Remove contact lenses and use an eye washer if possible. Seek medical assistance, if necessary, take this SDS.

Ingestion: Rinse the mouth and then drink plenty of water. Do not avoid spontaneous vomiting, lay the patient on his side to prevent from sucking in residues. Seek medical assistance, take this SDS.

What actions should be avoided: Do not neutralize with any chemical product. Do not induce vomiting. Do not provide anything through mouth if the victim is unconscious.

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Protection for providers of first aid: Avoid contact with the product when helping the victim.

4.2 – Important symptoms and effects, acute or late

May cause respiratory and eye irritation.

4.3 - Identification of immediate medical attention and special treatments required, if necessary

There is no specific antidote, symptomatic treatment.

5. FIRE FIGHTING MEASURES

5.1 Means of extinction

Appropriate: Not applicable. Non-flammable product. If exposed to fire by another source, use a suitable extinguishing agent for the fire

Inappropriate: Direct water jet-based extinguishers should be avoided so as not to cause the product to spread to other regions.

5.2 - Specific hazards from the substance or mixture

Special procedures: Fight fire at a safe distance. Use full PPE and autonomous type respiratory protection with positive pressure. Use dikes to contain the water in combat. Position yourself with your back to the wind. Use fog-shaped water to cool exposed equipment in the vicinity of the fire. This product is non-combustible. Move the containers away from the fire area. Water fog, foam, CO2 and chemical powder can be used in fires in the places where the product is stored.

Dangers arising from combustion: Non-combustible material. The product does not burn.

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5.3 – Special protective measures for the firefighting team

Respiratory device and complete protective equipment should be used in case of fire. Do not enter confined areas without adequate protective equipment (PPE); this should include autonomous masks for protection against the dangerous effects of combustion products or lack of oxygen.

6. CONTROL MEASURES FOR SPILLS OR LEAK

6.1 – Personal precautions, protective equipment and emergency procedures

For people who are not part of the emergency services: Avoid the formation of vapors and mists and avoid inhaling it. Ensure adequate ventilation. Evacuate people to safe places. Protective clothing, including wearing boots, waterproof clothing and gloves, airtight safety glasses for chemicals. Wash your hands after exposure with the product. Avoid contact with skin, eyes and clothing. If the material comes into contact with the skin during cleaning operations, immediately remove all contaminated clothing and wash the exposed areas of the skin with water. Do not touch, stay or walk on the spilled product. Avoid low areas. Move away from the place of the leak while staying positioned in favor of the wind to avoid contamination.

Removal of ignition sources: interrupt the electrical power and turn off spark generating sources. Remove all the material that may cause the beginning of a fire from the place (e.g. spilled diesel oil).

Dust control: it must be handled in favor of the wind, with an anti-dust mask.

Prevention of inhalation and contact with skin, mucous membranes and eyes: Use PPE as described in section 8.

For people who are part of the emergency services: Protective clothing, including wearing boots, waterproof clothing and gloves, hermetic safety glasses for chemicals should be worn during the cleaning of spills and deactivation of this material.

6.2 – Environmental precautions

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Special procedures: Avoid contamination of watercourses by sealing the entrance of rainwater galleries. Prevent product residues from reaching water collections, interrupt human and animal consumption. Make a dike around the spilled product.

6.3 – Methods and materials for cleaning containment

Cleaning methods: Paved Floor: Recovery – Absorb the spilled product through the available process, preferably by suction, avoiding contact with liquids. Neutralization – Not applicable. Disposal – The collected material must be packed, identified and transported according to the criteria of environmental legislation. In case of small spills, isolate the affected area and wash with plenty of running water. In case of large spills, adsorption, avoiding contact with liquids and store in plastic containers for disposal.

Ground: Remove the layers of contaminated soil until it reaches the uncontaminated soil, collect this material and place it in a sealed and properly identified container.

Bodies of water: Discontinue the collection for the human or animal consumption, and contact the nearest environmental agency and the company's emergency center, since the measures to be adopted depend on the proportions of the accident, the characteristics of the water body in question and the amount of the product involved.

Prevention of secondary hazards: Packaging for reuse, recycling or even disposal should be washed and neutralized to avoid risks to third parties. Washing water should only be released into sewers and bodies of water according to the legislation of the place.

Procedures: Isolate the area. Use PPE. Remove ignition sources. Contain the spill. Collect containers for disposal. Avoid contamination of watercourses.

7. HANDLING AND STORAGE

7.1 – Precautions for safe handling

Guidelines for safe handling: Avoid contact with skin and eyes. Avoid inhaling vapors and mists. The handling is carried out in a well-ventilated place. Use appropriate protective equipment. Open and handle the

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packages carefully. Keep people, especially children and pets away from workplace. Keep any leftovers of the products in their original packaging properly closed. In case of symptoms of intoxication, immediately stop the work and proceed as described in item 4 of this form.

Do not eat, drink or smoke while handling the product. Wash your hands before eating, drinking, smoking or going to the bathroom. When opening the package, do it in order to avoid shedding.

Prevention of worker exposure: DO not use damaged and/or defective personal protective equipment. Do not unclog nozzles, holes, pipes and valves with your mouth. Do not handle and/or carry damaged packaging. Adopt good personal hygiene practices. Do not store or consume food in the workplace. Contaminated clothes should be changed and washed before being reused. Remove contaminated clothing and protective equipment before entering the feeding area.

7.2 – Safe storage conditions, including any incompatibility

Adequate conditions: Keep the product in well-closed and properly identified packaging, stored in a cool, dry and ventilated place, protected from physical impacts

Conditions to avoid: Humid places, heat sources and direct sunlight. Avoid contact with humidity since the product is inactive when in contact with it.

Prevention of fire and explosion: Non-flammable product; but it is convenient to keep the product away from heat, sparks, flames and other sources of ignition.

Incompatible product and materials / other information: Do not store together with incompatible materials, food, feed, medicines, beverages intended for human and animal consumption.

Safe materials for packaging: Suitable: Waterproof bags / Not suitable: Not applicable.

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8. EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 – Control parameters

Occupational exposure limit: Amorphous Silica: 10 mg/m³ (ACGIH – TLV)

Biological indicators: Not established.

8.2 – Engineering control measures

Adequate: When applicable, use an appropriate exhaust system, in order to ensure adequate ventilation to the workplace. Handle the product in a place with good natural or mechanical ventilation, in order to keep the concentration of vapors and / or dust below the tolerance limit.

8.3 – Personal protection engineering control measures



Respiratory protection: Based on the occupational exposure limits or dangers by inhalation of the product, it is recommended to use a mask with a mechanical and chemical filter. Follow the guidance of the Respiratory Protection Program (RPP).

Hand protection: Use PVC or nitrile gloves.

Eye protection: Use safety glasses with side protection. Avoid wearing contact lenses when handling the product.

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Skin and body protection: Use a waterproof apron and a “Tech Boot” type PVC bootees.

Thermal hazards: There are no thermal hazards.

Special precautions: Keep PPE properly clean and in proper conditions of use, periodically performing inspections and possible maintenance and / or replacements of damaged equipment.

Hygiene measures: Take a shower and change clothes after using the product, before eating, smoking, and using the bathroom and at the end of the work period. Wash contaminated clothes separately, avoiding contact with other utensils for personal use.

Collective means of urgency: Emergency shower and eye washer.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 – Basic physical and chemical properties

Physical state: Dry and fine powder.

Color: Gray.

Odor: Characteristic.

Molecular Weight: Not applicable.

Ph: 7,0 (1% solution)

Boiling point: Not applicable.

Fulgor point: Not applicable.

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Evaporation rate: Not applicable.

Flammability: Not flammable.

Lower / upper limit of flammability or explosiveness: Not applicable.

Relative vapor density: Not applicable.

Density: Not applicable.

Vapor pressure: Not applicable.

Solubility: Soluble in water.

Partition coefficient –

n-octanol / water (Logkow vapor): Not applicable.

Self-ignition temperature: Not applicable.

Decomposition temperature: Higher than 150°C.

Viscosity: Not applicable.

Characteristics of the particle: Not applicable.

10. STABILITY AND REACTIVITY

10.1 – Reactivity

Not reactive.

10.2 - Chemical stability

Stable under normal temperature and pressure conditions.

10.3 – Possibility of dangerous reactions

Not applicable.

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10.4 – Conditions to be avoided

Keep away from humidity.

10.5 – Incompatible materials

Not applicable.

10.6 – Dangerous products of decomposition

It does not generate dangerous decomposition products.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Dermal: May cause mild irritation to the eyes and skin. Inhalation: Prolonged inhalation of silica dust can cause lung damage (with chronic exposure). Oral: Product is not considered toxic orally in usual doses.

Corrosion and skin irritation: There is no data of the formulated product.

Severe eye injuries/irritation: There is no data of the formulated product.

Respiratory or skin sensitization: There is no data of the formulated product.

Chronic toxicity: Carcinogenicity: There is no data of the formulated product.

Mutagenicity: There is no data of the formulated product.

Effects on reproduction: There is no data of the formulated product.

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Systemic toxicity for target organ: Effects on reproduction: There is no data of the formulated product.

Unique exhibition: There is no data of the formulated product.

Danger by aspiration: There is no data of the formulated product.

12. ECOLOGICAL INFORMATION

12.1 – Ecotoxicity

Toxicity for aquatic organisms: Not considered dangerous for the aquatic environment.

Toxicity to other organisms: Not considered dangerous to other organisms.

Main effects: Not applicable.

12.2 – Persistence and degradability

There is no data of the formulated product

12.3 – Bioaccumulative potential

Product with low bioaccumulative potential.

12.4 – Mobility on the ground

Not applicable.

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12.5 – Other adverse effects

Not applicable.

13. CONSIDERATIONS ABOUT FINAL DESTINATION

13.1 – Recommended methods for final destination

Product / rest of the product: It should be eliminated in accordance with local legislation. Treatment and disposal should be specifically evaluated for each product. Federal, state and municipal legislation should be consulted, among them: CONAMA Resolution 005/1993, Law No. 12.305, August 2, 2010 (National Policy on Solid Waste). Keep the remains of the product in its original packaging and properly closed. Disposal must be carried out as established for the product.

Used packaging: The storage of empty packaging must be carried out in a covered, ventilated place, sheltered from rain and with a waterproof floor, in addition to containment dikes. Do not reuse empty packaging. These may contain product remains and must be kept closed and sent for appropriate disposal as established for the product.

14. TRANSPORTATION INFORMATION

National and international regulations

Land classification (rail, road) according to the National Agency for Land Transport (ANTT):

- **Product not framed by the resolution in force on the transport of dangerous products.**

Air classification according to International Aviation Organization – Technical Instructions (ICAO – TI) and the National Civil Aviation Agency (ANAC):

- **Product not framed by the resolution in force on the transport of dangerous products.**

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Waterway classification (maritime, river, lacustrine) according to International Maritime Dangerous Goods (IMDG) and the National Waterway Transportation Agency (ANTAQ):

- **Product not framed by the resolution in force on the transport of dangerous products.**

NOTE: The regulations above are those in force on the day of the update of this FISPQ. Considering the continuous evolution of regulations on the transport of dangerous products, it is advisable to ensure their validity with the responsible Competent Bodies.

15. REGULATORY INFORMATION

National regulations:

Decree No. 10.088/2019 – Consolidates normative acts issued by the federal executive branch that provide for the promulgation of conventions and recommendations of the International Labor Organization – ILO ratified by the Federative Republic of Brazil.

Ordinance No.229, May 24, 2011 and its amendments – Amends the Regulatory Standard No.º26. Regulatory Standard NR 26 – Security signaling.

ABNT – Brazilian Association of Technical Standards – NBR 14725:2023

GHS Criteria – Globally Harmonized System of Classification and Labelling of Chemicals (GHS): 2019 – published by the UN (United Nations), which like other countries Brazil is a signatory.

Resolution 5.998/22 – Updates the Regulation for the Road Transport of Dangerous Products and approves its Complementary Instructions, and takes other measures.

ABNT – Brazilian Association of Technical Standards – NBR 14619:2013 – Chemical Incompatibility

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ABNT – Brazilian Association of Technical Standards – NBR 7500:2023 – Identification for land transport, handling, movement and storage of products.

16. OTHER INFORMATION

Recommended use: Follow all the recommendations for use, storage and disposal indicated by the manufacturer / registrant and described on the packaging, product leaflet and cited in the SDS.

Important Legal Observation: The data and information transcribed in this document are provided in good faith and represent what is best known to date on the subject, and are based on data provided by the registering company, manufacturer or importer of this product, available at the moment, not meaning, however, that they completely exhausted the subject. No guarantee is given about the result of the application of this data and information, not exempting users / receivers / workers / employers from their responsibilities, at any stage of the handling, storage, processing, packaging and distribution of this material / product. The provisions of the legislation, regulations and standards in force prevail over the data contained herein. The registrant assumes no responsibility for losses, damages, or expenses related to the handling, storage, use or disposal of the product, repair of losses or compensation of any kind.

It is warned that the handling of any chemical substance requires prior knowledge of its dangers by the user. It is up to the user's company to promote the training of its employees and contractors regarding the possible risks arising from the product.

This document is mandatory and provides information on various aspects of this material / chemical product regarding risks, handling, storage, emergency actions, protection, safety, health and environment, from the supplier of this material / product to the user / recipient / workers.

Captions and abbreviations:

ABNT – Brazilian Association of Technical Standards.

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ACGIH – American Conference of Governmental Industrial Hygienists.

AMES – Widely used test that uses bacteria to test whether a certain chemical can cause mutations in the DNA of the organism.

BUEHLER – in vivo test to track substances that cause sensitization of the human skin.

CAS – Chemical Abstracts Services.

CE50 – Effective Concentration.

CL50 – Lethal Concentration 50%.

DL50 – Lethal Dose 50%.

DOT – Department of Transportation.

DRAIZE – Test for identification of the potential for the skin and / or eye irritation.

EPA – Environmental Protection Agency.

PPE – Personal Protective Equipment.

GHS – Global Harmonized System.

IATA – International Air Transport Association, Dangerous Goods Regulations.

IMO / IMDG – International Maritime Dangerous Goods Code.

NA – Not Applicable.

NBR – Brazilian Standard.

ND – Not Available.

NFPA – National Fire Protection Association.

NOAEL – Level without observable adverse effects.

NR – Regulatory Standard.

OECD – Organization for Economic Cooperation and Development.

UN – United Nations.

OSHA – Occupational Safety and Health Administration.

PEL – Permissible Exposure Limits.

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REL – Recommended Exposure Limits.

ILV – Threshold limit value.

TWA – Time Weighted Average.

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