

MATERIAL SAFETY DATA SHEET (MSDS)**MarkHerb®-Mit20****LOT NO.: #250505****Manufacturing Date: 16/05/2025 | Best Before: 16/05/2029****SECTION 1: Identification of the Product and Company****1.1 Identification**

Product Name : MarkHerb®-Mit20
Product Code : ING-28-1000
Product Form : Powder
CAS Number : 4098-40-2
Synonym : *Mitragyna speciosa*

1.2 Recommended use and restrictions on use

No additional information available

1.3 Supplier

Manufacturer : MarkHerb (PT. EBM Saintifik dan Teknologi)
Email : info@markherb.com
Telephone : +62 2282 044 193
Address : PT. EBM Saintifik dan Teknologi
Jalan Bukit Raya Atas No. 553B, Kp. Sekejulang,
Ciumbuleuit, Kec. Cidadap, Bandung 40142,
Jawa Barat, Indonesia
Website : www.markherb.com

1.4 Emergency telephone number

| | |
|---------|--------------------|
| 112 | Emergency response |
| 113 | Fire brigade |
| 118/119 | Ambulance |

SECTION 2: Hazards Identification**2.1 Classification of the substance or mixture**

Physical hazard : Hazard classes acc. to GHS
(physical hazards): not relevant
Health Hazards : ATO 4, ATI 4, EDI 2A, SS1
Environmental Hazards : No data available

2.2 GHS Label elements, including precautionary statements



Particular risks:

| | |
|------|-------------------------------------|
| H302 | Harmful if swallowed |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |

Precautionary Statement: Prevention

| | |
|------|---|
| P261 | Avoid breathing dust, fume, gas, mist, vapours, spray. |
| P264 | Wash parts in contact thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P272 | Contaminated work clothing must not be allowed out of the workplace |
| P280 | Wear protective gloves/ eye protection/ face protection |

Precautionary Statement: Response

| | |
|----------------|--|
| P301+P310 | IF SWALLOWED : Immediately call a POISON CENTER or doctor/physician. |
| P312 | Call a POISON CENTER or doctor if you feel unwell |
| P302+P352 | IF ON SKIN : Wash with plenty of soap and water. |
| P305+P351+P338 | IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P330 | Rinse mouth |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P363 | Wash contaminated clothing before reuse |

Precautionary Statement: Storage

| | |
|-----------|--|
| P403+P235 | Store in well-ventilated place. Keep cool. |
| P405 | Store locked up. |

Precautionary Statement: Disposal

| | |
|------|--|
| P501 | Dispose of contents and/or container in accordance with local, regional, national and/or international regulation. |
|------|--|

2.3 Other hazards which do not result in classification

No additional information available.

2.4 Unknown acute toxicity

Not applicable.

SECTION 3: Composition/information on ingredients**3.1 Substances**

| Name | Product Identifier | Content (%) | GHS classification |
|-------------|--------------------|-------------|------------------------------|
| Mitragynine | CAS No. 4098-40-2 | ≥20% | H302 H317 H319 H332 |

3.2 Mixture

Not applicable

SECTION 4: First-aid measures**4.1 Description of first-aid measures**

| | |
|---------------------------------------|---|
| First-aid measures after inhalation | <ul style="list-style-type: none">- Supply fresh air.- Provide oxygen treatment if affected person has difficulty breathing.- If experiencing respiratory symptoms: Call a poison center/doctor.- In case of unconsciousness place patient stably in side position for transportation. |
| First-aid measures after skin contact | <ul style="list-style-type: none">- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.- If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | <ul style="list-style-type: none">- Remove contact lenses if worn.- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. |
| First-aid measures after ingestion | <ul style="list-style-type: none">- Rinse out mouth and then drink plenty of water.- Do not induce vomiting; immediately call for medical help.- A person vomiting while lying on their back should be turned onto their side. |

4.2 Most important symptoms and effects (acute and delayed)

| | |
|-------------------------------------|--|
| Symptoms/effects after skin contact | Repeated contact may cause allergic dermatitis. |
| Symptoms/effects after eye contact | May cause eye irritation and corneal damage if not immediately rinsed out. |
| Symptoms/effects after inhalation | Breathing high concentrations of vapor may cause anesthetic effects. Coughing and/ or wheezing |
| Symptoms/effects after ingestion | Not an expected route of exposure. |

4.3 Immediate medical attention and special treatment, if necessary

Treat symptomatically

SECTION 5: Fire-fighting measures

5.1 Suitable (and unsuitable) extinguishing media

| | |
|------------------------------|--|
| Suitable extinguishing media | <ul style="list-style-type: none"> - Water spray - Dry powder - Foam - Carbon dioxide. |
|------------------------------|--|

5.2 Specific hazards arising from the chemical

| | |
|-------------|---|
| Fire hazard | Flammable liquid and vapor. |
| Reactivity | Formation of toxic gases is possible during heating or in case of fire. |

5.3 Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|--|
| Protection during firefighting | <ul style="list-style-type: none"> - Do not attempt to take action without suitable protective equipment. - Self-contained breathing apparatus. - Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

| | |
|----------------------|---|
| Emergency procedures | <ul style="list-style-type: none"> - Ventilate spillage area. - NO open flames, NO sparks, and NO smoking. - Avoid contact with skin and eyes. - Avoid breathing dust/fume/gas/mist/vapors/spray. |
|----------------------|---|

6.1.2 For emergency responders

| | |
|----------------------|---|
| Protective equipment | Do not attempt to take action without suitable protective equipment. For further information refer to Section 8: "Exposure controls/personal protection". |
|----------------------|---|

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

| | |
|-------------------------|--|
| For containment | Collect spillage. |
| Methods for cleaning up | <ul style="list-style-type: none"> - Take up liquid spill into absorbent material. - Notify authorities if product enters sewers or public waters. |
| Other information | Dispose of materials or solid residues at an authorized site. |

6.4 Reference to other sections

For further information refer to Section 8 : Exposure-controls/personal protection".

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | <ul style="list-style-type: none"> - Ensure good ventilation of the workstation. - Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. - Ground/bond container and receiving equipment. - Use only non-sparking tools. - Take precautionary measures against static discharge. - Flammable vapors may accumulate in the container. - Use explosion-proof equipment. Wear personal protective equipment. - Avoid contact with skin and eyes. - Avoid breathing dust/fume/gas/mist/vapors/spray. |
| Hygiene measures | <ul style="list-style-type: none"> - Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. - Do not eat, drink, or smoke when using this product. - Always wash hands after handling the product. |

7.2 Conditions for safe storage, including any incompatibilities

| | |
|--------------------|---|
| Technical measures | Ground/bond container and receiving equipment. |
| Storage conditions | Store in a well-ventilated place. Keep cool. Keep container tightly closed. |

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No additional information available.

8.2 Appropriate engineering controls

| | |
|----------------------------------|---|
| Appropriate engineering controls | Ensure good ventilation of the workstation. |
| Environmental exposure controls | Avoid release to the environment. |

8.3 Individual protection measures/Personal protective equipment

| | |
|--------------------------|---|
| Hand protection | Protective gloves |
| Eye protection | Safety glasses |
| Skin and body protection | Wear suitable protective clothing |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|--------------------------------|----------------------------|
| Physical state | Powder |
| Colour | Dark greenish brown |
| Odour | Characteristic odor |
| Odour threshold | No data available |
| Specific gravity (25°C) | No data available |
| Refractive index (25°C) | No data available |
| pH | No data available |
| Melting point | Not applicable |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Flammability (solid, gas) | Not applicable |
| Vapor pressure | No data available |
| Relative vapor density (20 °C) | No data available |
| Relative density | Not available |
| Solubility | Acetone, methanol, ethanol |
| Log Pow | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity, kinematic | No data available |
| Viscosity, dynamic | No data available |
| Explosion limits | No data available |
| Explosive properties | No data available |
| Oxidizing properties | No data available |

9.2 Other information

No additional information available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

Flammable liquid and vapour.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Eliminate all sources of ignition. Avoid contact with:

- Hot surfaces.
- Heat.
- Flames.
- Sparks.

10.5 Incompatible materials

No additional information available.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Exposure controls/personal protection**11.1 Information on toxicological effects**

| | |
|-----------------------------------|-------------------------------------|
| Acute toxicity | Not classified |
| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Not classified |
| Respiratory or skin sensitization | May cause an allergic skin reaction |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive toxicity | Not classified |

| | |
|--|--------------------------------------|
| Specific target organ toxicity – single exposure | Not classified |
| Specific target organ toxicity – repeated exposure | Not classified |
| Aspiration hazard | Coughing and/or wheezing. |
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | Not classified |

SECTION 12: Ecological information

12.1 Toxicity

No additional information available.

12.2 Persistence and degradability

No additional information available.

12.3 Bioaccumulative potential

No additional information available.

12.4 Mobility in soil

No additional information available.

12.5 Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1 Disposal methods

| | |
|-------------------------|---|
| Waste treatment methods | Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Additional information | Flammable vapors may accumulate in the container. |

SECTION 14: Transport information

RID/ADR (Road Transport)

| | |
|-----------------|---------------|
| Class | Not regulated |
| Subsidiary Risk | - |
| UN Number | Not regulated |
| Packing Group | Not regulated |
| Tunnel Code | Not regulated |

IMCO/IMDG (Sea Transport)

| | |
|-----------------|---------------|
| Class | Not regulated |
| Subsidiary Risk | - |
| UN Number | Not regulated |
| Packing Group | Not regulated |
| EmFS | Not regulated |

ICAO/IATA (Air Transport)

| | |
|--|---------------|
| Class | Not regulated |
| Subsidiary Risk | - |
| UN Number | Not regulated |
| Packing Group | Not regulated |
| Traveller Airplane Packing Instruction | Not regulated |
| Traveller Airplane Maximum Quantity | Not regulated |
| Cargo Airplane Packing Instruction | Not regulated |
| Cargo Airplane Maximum Quantity | Not regulated |

Labelling according to RID/ADR, IMCO/IMDG, OACI/IATA

| | |
|---------------|---------------|
| Shipping Name | Not regulated |
|---------------|---------------|

SECTION 15: Regulatory information
15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

International Regulations

| Country | Notification |
|-----------|---|
| Canada | Not regulated |
| EU | Not regulated |
| Hong Kong | Not regulated |
| Singapore | Not regulated |
| USA | This product does not contain any substances regulated under applicable state right-to-know regulations |

15.2 Chemical safety assessment

No additional information available.

SECTION 16: Other information

Abbreviation used:

| | |
|----|----------------|
| EU | European Union |
|----|----------------|

| | |
|------|--|
| CAS | Chemical Abstract Service |
| GHS | Globally Harmonized System |
| ADR | Transport of Dangerous Goods by Road |
| RID | International Carriage of Dangerous Goods by Rail |
| IMCO | Intergovernmental Maritime Consultative Organization |
| IMDG | International Maritime Dangerous Goods |
| ICAO | International Civil Aviation Organization |
| IATA | International Air Transport Association |

We confirm that the above information is sourced from the original manufacturer's specification and based on the reliable test and data. However, it should not be construed as guaranteeing specific properties and it is the individual's consideration to determine the usage of the product.