

## MATERIAL SAFETY DATA SHEET (MSDS)

**MarkHerb®-Mit90**

**LOT NO.: #250510**

**Manufacturing Date: 19/05/2025 | Best Before: 19/05/2029**

### SECTION 1: Identification of the Product and Company

#### 1.1 Identification

Product Name : MarkHerb®-Mit90  
Product Code : ING-17-1000  
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](mailto: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](http://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	≥90%	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"><li>- Supply fresh air.</li><li>- Provide oxygen treatment if affected person has difficulty breathing.</li><li>- If experiencing respiratory symptoms: Call a poison center/doctor.</li><li>- In case of unconsciousness place patient stably in side position for transportation.</li></ul>
First-aid measures after skin contact	<ul style="list-style-type: none"><li>- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li><li>- If skin irritation or rash occurs: Get medical advice/attention.</li></ul>
First-aid measures after eye contact	<ul style="list-style-type: none"><li>- Remove contact lenses if worn.</li><li>- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.</li></ul>
First-aid measures after ingestion	<ul style="list-style-type: none"><li>- Rinse out mouth and then drink plenty of water.</li><li>- Do not induce vomiting; immediately call for medical help.</li><li>- A person vomiting while lying on their back should be turned onto their side.</li></ul>

#### 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"> <li>- Water spray</li> <li>- Dry powder</li> <li>- Foam</li> <li>- Carbon dioxide.</li> </ul>
------------------------------	--

#### 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"> <li>- Do not attempt to take action without suitable protective equipment.</li> <li>- Self-contained breathing apparatus.</li> <li>- Complete protective clothing.</li> </ul>
--------------------------------	--

### 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"> <li>- Ventilate spillage area.</li> <li>- NO open flames, NO sparks, and NO smoking.</li> <li>- Avoid contact with skin and eyes.</li> <li>- Avoid breathing dust/fume/gas/mist/vapors/spray.</li> </ul>
----------------------	---

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

## 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	Bright orangish yellow
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.*