

## Section 1. Product and Company Information

<b>GHS Product Name:</b>	Myristicin
<b>Product Code:</b>	PHE-24-10
<b>CAS:</b>	[607-91-0]
<b>Molecular Formula:</b>	$C_{11}H_{12}O_3$ 4-methoxy-6-prop-2-enyl-1,3-benzodioxole; 6-Allyl-4-Methoxy-1,3-Benzodioxole; Myristicin (6CI); 4-Methoxy-6-(2-Propenyl)-1,3-Benzodioxole; Myristicine; 5-Allyl-1-Methoxy-2,3-(Methylenedioxy)Benzene; 1,3-Benzodioxole, 4-methoxy-6-(2-propenyl)-; 5-allyl-1-methoxy-2,3-(methylenedioxy)-; Miristisin (INA);
<b>Company:</b>	MarkHerb
<b>Address:</b>	Gedung Riset dan Inovasi (ex. PAU Lt. 8), Institut Teknologi Bandung, Jl Ganesha 10, Bandung 40132
<b>Tel.:</b>	+62 877-4556-0063
<b>Fax:</b>	-
<b>Website:</b>	<a href="http://www.markherb.com">www.markherb.com</a>
<b>E-mail:</b>	<a href="mailto:info@markherb.com">info@markherb.com</a>

## Section 2. Hazards Identification

### 2.1 GHS classification

**PHYSICAL HAZARDS** Not classified

**HEALTH HAZARDS**

Acute toxicity, Oral (Category 4), H302

Reproductive toxicity (Category 2), H316f

**ENVIRONMENTAL HAZARDS**

Chronic aquatic toxicity (Category 2), H401

Long-term (chronic) aquatic hazard (Category 2), H411

### 2.2 GHS label elements, including precautionary statements

**Pictograms or hazard symbols**



**Signal word** Warning

**Hazard statements**

H302 Harmful if swallowed

H316f Suspected of damaging fertility

H401 Toxic to aquatic life

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H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P201 Obtain special instructions before use.  
P260 Do not breath dust/fume/gas/mist/vapours/spray.  
P262 Do not get in eyes, on skin, or on clothing.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P312 + P330 IF SWALLOWED: Call POISON CENTER/doctor if you feel unwell.  
Rinse mouth.  
P308 + P313 IF exposed or concerned. Get medical advice/ attention.  
P391 Collect spillage  
P405 Store locked up  
P501 Dispose of contents/container to an approved waste disposal plant.

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### Section 3. Information on Basic Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid  
**Melting Point:** < -20°C  
**Boiling Point:** 276.5°C at 760 mmHg  
**Flash Pt:** 89.8±16.0°C  
**Evaporation Rate:** No data  
**Flammability (solid, gas):** No data available.  
**Explosive Limits:** LEL: No data UEL: No data  
**Vapor Pressure (vs. Air or mm Hg):** 0.0±0.5 mmHg at 25°C  
**Vapor Density (vs. Air = 1):** No data.  
**Specific Gravity (Water = 1):** No data  
**Solubility in Water:** Insoluble  
**Solubility Notes:** 30 mg/ml in EtOH; 25 mg/ml in DMSO; 25 mg/ml in DMF; Acetone;  
**Autoignition Pt:** 363.00°C  
**Percent Volatile:** No data  
**Partition coefficient:** log Pow: 3.235 (n-octanol/water)  
**pH:** No data

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### Section 4. First aid measures

**Description of first aid measures**

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2).

**Indication of any immediate medical attention and special treatment needed**

No data available

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## Section 5. Fire Fighting Measures

### Suitable extinguishing

**Media:** Dry chemical, alcohol-resistant foam, water spray, carbon dioxide.

**Precautions for firefighters:** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

### Special protective:

**equipment for firefighters:** When extinguishing fire, be sure to wear personal protective equipment.

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## Section 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Do not let product enter drains.

### General Information:

Use proper personal protective equipment as indicated in **Section 8**.

### Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete.

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## Section 7. Handling and Storage

### Precautions for safe handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

### Storage:

Store in a well closed container. Protected from air and light.

Light Sensitive. Recommended storage temperature 2-8°C

### Specific end uses

Use in a laboratory fume hood where possible. Refer to employer is COSHH risk assessment.

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## Section 8. Exposure Controls / Personal Protection

### Engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

**Control parameters:** Not set up

**Personal protective equipment:**

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**Respiratory protection:** Dust respirator. Follow local and national regulations.

**Hand protection:** Protective gloves.

**Eye protection:** Wear safety glasses and chemical goggles if splashing is possible.

**Skin and body protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

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## Section 9. Stability and Reactivity

### Reactivity

Stable under recommended transport or storage conditions.

### Chemical Stability

Stable under normal temperatures and pressures.

### Conditions to Avoid

Incompatible materials, strong oxidants, heat, light.

### Incompatibilities with Other Materials

Strong oxidising/reducing agents, strong acids/alkalis.

### Hazardous Decomposition Products

Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

### Hazardous Polymerization

Has not been reported.

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## Section 10. Toxicological Information

<b>Acute Toxicity:</b>	No data
<b>Skin corrosion/irritation:</b>	No data
<b>Serious eye damage/irritation:</b>	No data
<b>Germ cell mutagenicity:</b>	No data
<b>Carcinogenicity:</b>	IARC = No data NTP = No data
<b>Reproductive toxicity:</b>	No data

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## Section 11. Ecological Information

<b>Toxicity:</b>	No data
<b>Persistence and degradability:</b>	No data
<b>Bioaccumulative potential:</b>	No data
<b>Mobility in soil:</b>	No data
<b>Results of PBT &amp; vPvB assessment:</b>	No data
<b>Other adverse effects:</b>	Toxic to aquatic life with long lasting effects.

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## Section 12. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

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## Section 13. Transport Information

### Hazards Class

Not a hazardous material for transportation

### UN number

ADR/RID: 3082

IMDG: 3082

IATA: 3082

### UN proper shipping name

#### ADR/RID

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (6-allyl-4-methoxy-1,3-benzodioxole)

#### IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (6-allyl-4-methoxy-1,3-benzodioxole)

#### IATA

Environmentally hazardous substance, liquid, n.o.s. (6-allyl-4-methoxy-1,3-benzodioxole)

### Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

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## Section 14. Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

no data

### Chemical Safety Assessment

no data

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## Section 15. Additional Information

This MSDS above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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-----End of safety data sheet-----