

## 1. Identification of the substance or mixture and of the supplier

### GHS product identifier:

Stock Number: 100310  
Product Name: FARMAL MD 15  
maltodextrin

### Other means of identification:

Chemical family: Carbohydrate

### Recommendations and restrictions on use of the substance or mixture:

Recommended use: Personal Care  
Restrictions on use: Not Available

### Supplier's details (i.e. name, address, phone number(s)):

Ingredion (Thailand) Co., Ltd  
40/14 Moo 12, Bangna-Trad Road,  
Bangplee, Samutprakarn 10540  
Thailand  
Tel: +662-725-0200 (business hours)

### Emergency phone number:

CHEMTREC - Emergency Telephone (Medical & Transport Incident With Product- 7Days/24 Hours)  
The global (outside US) number: +1 703-741-5970  
Australia: +(61)-290372994  
China: 4001-204937  
India: 000-800-100-7141\*  
Indonesia: 001-803-017-9114\*  
Japan: +(81)-3-4520-9637  
Malaysia: +(60)-392125794  
New Zealand: +(64)-98010034  
Philippines: +(63) 2-395-3308, 1-800-1-322-0553\*  
Singapore: +(65)-31638374, 800-101-2201\*  
South Korea: +(82) 070-7686-0086, 080-880-0454\*  
Taiwan: +886-2-7741-4207\*, 00801-49-1821\*  
Thailand: 1800014808\*  
Vietnam: +(84)-444581938  
\* Phone numbers for countries marked with an asterisk must be dialed within the country  
SDS Requests and general information, please contact Local Customer Service: See phone numbers in Section 16

## 2. Hazards identification

Classification of the chemical in accordance with system of Hazardous Substances B.E. 2555:

<b>GHS Hazard Symbols:</b>	No hazard symbols required
<b>GHS Classification of the substance or mixture, and national or regional information:</b>	Not Classified by GHS criteria
<b>Signal Word:</b>	No Signal Word needed.
<b>Hazard Statements:</b>	No Hazard Statement needed.
<b>Precautionary Statements:</b>	No Precautionary Statement needed.
<b>Other hazards which do not result in GHS classification:</b>	None known.

### 3. Composition/information on ingredients

**Substance:**

Chemical Name	CAS Number	Concentration (% by weight)
No hazardous components.		

**Mixture:**

Not applicable

### 4. First-aid measures

**Description of necessary first-aid measures divided by relevant routes of exposure i.e. inhalation, skin, eye, and ingestion:**

Inhalation:	Remove to fresh air. Get medical attention if irritation persists.
Eye Contact:	Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. If symptoms develop, obtain medical attention.
Skin Contact:	Wash skin with soap and water.
Ingestion:	None required.
<b>Most important symptoms/effects, acute and delayed:</b>	Possible physical irritant from dust particles. Potential for dust explosion.
<b>Indication of immediate medical attention and special treatment needed, if necessary:</b>	No further first aid information is available.

## 5. Fire-fighting measures

### Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media: Dry Chemical, CO<sub>2</sub>, Water Fog, Foam

Unsuitable extinguishing media: None known.

### Specific hazards arising from the chemical e.g. hazardous combustion products that form when the substance or mixture burns:

Minimum ignition temperature of dust cloud- approx. 390 C. Minimum explosive concentration- approx. 62 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.045 joules.

Hazardous combustion products:

This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

### Special protective equipment and precautions for fire-fighters:

No special procedures are required.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment as required.

### Environmental precautions:

Not available

### Methods and materials for containment and cleaning up:

Normal precautions for "nuisance dust" should be observed. Avoid prolonged inhalation of dust. Sweep up or vacuum up and place in suitable container for disposal.

## 7. Handling and storage

### Precaution for safe handling and storage:

As with all chemicals, good industrial hygiene practices should be followed when handling this material.

### Conditions for safe storage, including any incompatibilities:

Safe storage conditions: Keep container closed when not in use.

Static Sensitivity: Yes

Other precautions: Use care to minimize dust generation in normal use conditions.

Avoid dispersing the powder in the air. Prevent buildup of powder on surfaces.

Materials to Avoid/Chemical Incompatibility:

None known

## 8. Exposure controls/personal protection

Control parameters e.g. occupational exposure limit values, biological limit values:

Chemical Name	Thailand - Occupational Exposure Limits - TWA's	Thailand - Occupational Exposure Limits - STEL's	Thailand - Occupational Exposure Limits - CEIL's
No data available			

This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m<sup>3</sup>.

**Appropriate engineering controls:** General.

**Individual protection measures e.g. personal protective equipment:**

**Respiratory Protection:** NIOSH approved dust mask.

**Eye protection:** Safety glasses recommended.

**Skin protection:** Skin protection may be required depending on product temperature.

**Gloves:** Gloves are not normally required for foreseeable conditions of use.

**Other protective equipment:** Not normally required. Not applicable.

**General hygiene conditions:** Wash before eating, drinking, or using toilet facilities.

## 9. Physical and chemical properties

**Appearance (physical state, color etc.):**

Pure Substance or Mixture: Pure

Physical State: Powder

Color: White

**Odor:** Characteristic

**Odor Threshold:** Not available

**pH:** Not available

**pH in (1%) Solution:** Not available

**Melting point/freezing point:**

Melting Point: Not available

Freezing point: Not available

**Initial boiling point and boiling range:** Not available

**Flash Point:** Not applicable

**Evaporation Rate:** Not applicable

**Flammability (solid, gas):** No

**Upper/lower flammability or explosive limits:**

Upper flammability or explosive limits: Not available

Lower flammability or explosive limits: Not available

<b>Vapor pressure:</b>	Not available
<b>Vapor density:</b>	Not available
<b>Relative density:</b>	1.5
<b>Solubility:</b>	Soluble in water
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Heat of Decomposition:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not applicable
<b>Volatiles:</b>	None
<b>Volatile Organic Chemicals:</b>	Not applicable

## 10. Stability and reactivity

<b>Reactivity:</b>	Not expected to be reactive
<b>Chemical stability:</b>	Stable
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid:</b>	None known
<b>Incompatible materials:</b>	None known
<b>Hazardous decomposition products:</b>	This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

## 11. Toxicological information

### Description of the various toxicological (health) effects, and the available data used to identify those effects:

<b>Information of the likely routes of exposure:</b>	Ingestion, Inhalation, Skin Contact, Eye Contact
<b>Target Organs Potentially Affected By Exposure:</b>	Not applicable.
<b>Symptoms related to physical, chemical and toxicological characteristics:</b>	No data available
<b>Toxic Effects:</b>	This product is considered as being non-toxic. Use of good industrial hygiene practices is recommended.
<b>Delayed and immediate effects and also chronic effects from short- and long-term exposure:</b>	
<b>Acute toxicity:</b>	
Ingestion Toxicity:	Based on available data, the GHS classification criteria are not met.
Acute toxicity - Dermal:	Based on available data, the GHS classification criteria are not met.

<b>Inhalation Toxicity:</b>	Based on available data, the GHS classification criteria are not met.
<b>Skin corrosion/irritation:</b>	Based on available data, the GHS classification criteria are not met.
<b>Serious eye damage/irritation:</b>	Based on available data, the GHS classification criteria are not met.
<b>Respiratory sensitisation:</b>	Based on available data, the GHS classification criteria are not met.
<b>Skin sensitisation:</b>	Based on available data, the GHS classification criteria are not met.
<b>Germ cell mutagenicity:</b>	Based on available data, the GHS classification criteria are not met.
<b>Reproductive Toxicity:</b>	No.
<b>Carcinogenicity:</b>	No.
<b>Specific Target Organ Toxicity (STOT)-single exposure:</b>	Based on available data, the GHS classification criteria are not met.
<b>Specific Target Organ Toxicity (STOT) -repeated exposure:</b>	Based on available data, the GHS classification criteria are not met.
<b>Aspiration hazard:</b>	Based on available data, the GHS classification criteria are not met.

**Numerical measures of toxicity (such as acute toxicity estimates):**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
There is no known toxicity data available for the components or the product.			

**12. Ecological information**

**Toxicity (aquatic and terrestrial):** No information available.

**Ecological Toxicity Data:**

Chemical Name	CAS Number	Aquatic LC50 Fish	Aquatic ERC50 Algae	Aquatic EC50 Crustacea
No data available				

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** Unknown

**Other adverse effects:** None known.

**13. Disposal considerations**

**Description on waste residue and safety transfer method, including appropriate disposal methods of**

Disposal should be in accordance with local, state or national legislation.

waste residues and contaminated packaging:

## 14. Transport information

<b>UN Transport classification:</b>	Not regulated
<b>UN Number:</b>	Not applicable
<b>Proper shipping name or technical name:</b>	Not applicable
<b>Transport hazard class:</b>	Not applicable
<b>Packing group:</b>	Not applicable
<b>Toxic Inhalation Hazard Zone:</b>	No data available
<b>Environmental hazards (e.g., Marine pollutant (Yes/No)):</b>	No data available
<b>Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):</b>	No data available
<b>Special precautions for users, which a user needs to be aware of or needs to comply with in connection with transport either inside or outside the business site:</b>	Consult IMO regulations before transporting in bulk by ocean.

## 15. Regulatory information

### Safety, health and environmental regulations:

<b>TSCA Status:</b>	This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et. seq.
<b>FDA</b>	Cosmetics

### Thailand - Toxic Chemical Substance List

Chemical Name	CAS Number	Thailand - Toxic Chemical Substance List
No data available		

### Thailand - Priority Management Chemical List

Chemical Name	CAS Number	Thailand - Priority Management Chemical List
No data available		

### Thailand - Thailand Explosive Substance and Precursors

Chemical Name	CAS Number	Thailand - Thailand Explosive Substance and Precursors
No data available		

**Montreal Protocol on Substances that Deplete the Ozone Layer,**

Chemical Name	CAS Number	Montreal Protocol on Substances that Deplete the Ozone Layer,
No data available		

**Stockholm Convention on Persistent Organic Pollutants**

Chemical Name	CAS Number	Stockholm Convention on Persistent Organic Pollutants
No data available		

**Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.**

Chemical Name	CAS Number	Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.
No data available		

**Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal.**

Chemical Name	CAS Number	Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal.
No data available		

**16. Other information, including date of preparation or last revision.**

**Revision Date:** 12-04-2023

**Supersedes:** None

**Revision Number:** 1

**Reason for revision:** New

**For Information Contact** Thailand:  
 Ingredion (Thailand) Co., Ltd  
 Customer Service: +66-2-725-0200

**Disclaimer:**

The attached data has been compiled from sources which Ingredion Incorporated and the Ingredion group of





# Safety Data Sheet

FARMAL MD 15

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