

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

GHS product identifier:

Stock Number: 06545100
Product Name: FARMAL MS 6135

Other means of identification:

Chemical family: Modified starch

Recommendations and restrictions on use of the substance or mixture:

Recommended use: Not Available

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:

GHS Hazard Symbols:

No hazard symbols required

GHS Classification of the substance or mixture, and national or regional information:

Not Classified by GHS criteria

Signal Word:

No Signal Word needed.

Hazard Statements:

No Hazard Statement needed.

Precautionary Statements:

No Precautionary Statement needed.

Other hazards which do not result in GHS classification:

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:	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes.
Skin Contact:	Wash with soap and water for no less than 15 minutes.
Ingestion:	None required.

Most important symptoms/effects, acute and delayed:

Not considered as hazardous.

Indication of immediate medical attention and special treatment needed, if necessary:

No further first aid information is available.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:	CO ₂ , Dry Chemical, Foam, Water Fog
Unsuitable extinguishing media:	None known.

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

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:

Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

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. Prohibit smoking and open flames. Avoid sparks or other sources of static electricity.

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:

Store in a clean, dry, well ventilated warehouse away from odorous materials.

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.

Mechanical handling of the powder on inadequately grounded equipment can result in static electrical discharges.

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/m³.

Appropriate engineering controls: General.

Individual protection measures e.g. personal protective equipment:

Respiratory Protection: NIOSH approved dust mask.

Eye protection: Chemical safety glasses.

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

Gloves: Gloves are recommended due to possible irritation., Gloves should conform to EN 374.

Other protective equipment: Uniforms, coveralls, or a lab coat should be worn.

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

9. Physical and chemical properties

Appearance (physical state, color etc.):

Physical State: Powder

Color: White

Odor: Starch

Odor Threshold: Not available

pH: Approximately 6

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

Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	No data available
Solubility:	Not Available
Partition coefficient: n-octanol/water:	Not available
Heat of Decomposition:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Volatiles:	None
Volatile Organic Chemicals:	Not available

10. Stability and reactivity

Reactivity:	Not expected to be reactive
Chemical stability:	Stable
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	None known
Incompatible materials:	None known
Hazardous decomposition products:	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:

Information of the likely routes of exposure:	None known.
Target Organs Potentially Affected By Exposure:	None known.
Symptoms related to physical, chemical and toxicological characteristics:	No data available
Toxic Effects:	This product is considered as being non-toxic. Use of good industrial hygiene practices is recommended.
Delayed and immediate effects and also chronic effects from short- and long-term exposure:	
Acute toxicity:	
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.

Inhalation Toxicity:	Based on available data, the GHS classification criteria are not met.
Skin corrosion/irritation:	Wash skin with soap and water. Low order of toxicity.
Serious eye damage/irritation:	Based on available data, the GHS classification criteria are not met.
Respiratory sensitisation:	Based on available data, the GHS classification criteria are not met.
Skin sensitisation:	Based on available data, the GHS classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the GHS classification criteria are not met.
Reproductive Toxicity:	Based on available data, the GHS classification criteria are not met.
Carcinogenicity:	No.
Specific Target Organ Toxicity (STOT)-single exposure:	Based on available data, the GHS classification criteria are not met.
Specific Target Organ Toxicity (STOT) -repeated exposure:	Based on available data, the GHS classification criteria are not met.
Aspiration hazard:	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): Low, but has a BOD contribution.

Ecological Toxicity Data:

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

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: Low (degrades too rapidly)

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

UN Transport classification:	Not regulated
UN Number:	Not applicable
Proper shipping name or technical name:	Not applicable
Transport hazard class:	Not applicable
Packing group:	Not applicable
Toxic Inhalation Hazard Zone:	No data available
Environmental hazards (e.g., Marine pollutant (Yes/No)):	No data available
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	No data available
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:	Consult IMO regulations before transporting in bulk by ocean.

15. Regulatory information

Safety, health and environmental regulations:

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

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: 12-22-2022

Supersedes: 12-09-2022

Revision Number: 6

Reason for revision: New

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

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