

## **NOVATION 3600**

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

GHS product identifier:

Stock Number: 34121304
Product Name: NOVATION 3600
food starch

Other means of identification:

Chemical family: Starch

Recommendations and restrictions on use of the substance or mixture:

Recommended use: Food products
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:



## **NOVATION 3600**

GHS Hazard Symbols:

No hazard symbols required

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

information:

Hazardous to the aquatic environment - Acute Category 3

Signal Word: No Signal Word needed.

Hazard Statements: Harmful to aquatic life.

**Precautionary Statements:** 

**Prevention:** Avoid release to the environment.

**Disposal:** Dispose of contents/container to a suitable disposal site in accordance

with local/national/international regulations.

Other hazards which do not result in

**GHS** classification:

None known.

### 3. Composition/information on ingredients

#### Substance:

Not applicable

#### Mixture:

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

## 4. First-aid measures

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

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.

Most important symptoms/effects,

acute and delayed:

Possible physical irritant from dust particles. Potential for dust explosion.



## **NOVATION 3600**

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: Dry Chemical, CO2, 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. 70 mg/l. Minimum energy to ignite cloud

by electrical spark- approx. 0.06 joules.

Hazardous combustion products: This product does not undergo spontaneous decomposition. Typical

combustion products are carbon monoxide, carbon dioxide, nitrogen and

water.

Not available

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:

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



## **NOVATION 3600**

### 8. Exposure controls/personal protection

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

	Thailand - Occupational	Thailand - Occupational	Thailand - Occupational
Chemical Name	Exposure Limits -	Exposure Limits -	Exposure Limits -
	TWA's	STEL's	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:

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:
Physical State:
Color:
White
Odor:
Starch

Odor Threshold:

pH:

Not available

Not available

pH in (1%) Solution:

Approximately 6

Melting point/freezing point:

Melting Point:

Freezing point:

Not available

Not available

Initial boiling point and boiling range:

Flash Point:

Evaporation Rate:

Not applicable

Not applicable

Flammability (solid, gas): No Upper/lower flammability or explosive limits:

Upper flammability or explosive limits: Not available



## **NOVATION 3600**

Lower flammability or explosive limits: Not available

Vapor pressure: Not available

Vapor density: Not available

Relative density: 1.5

Solubility: Insoluble
Partition coefficient: n-octanol/water: Not available
Heat of Decomposition: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not applicable

Volatiles: None

Volatile Organic Chemicals: Not applicable

#### 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:

Ingestion, Inhalation, Skin Contact, Eye Contact

**Target Organs Potentially Affected By** 

Exposure:

Not applicable.

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.



## **NOVATION 3600**

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:** Low order of toxicity. Unlikely to cause harmful effects under

recommended conditions of handling and use.

Serious eye damage/irritation:

Respiratory sensitisation:

Based on available data, the GHS classification criteria are not met.

Based on available data, the GHS classification criteria are not met.

Based on available data, the GHS classification criteria are not met.

Based on available data, the GHS classification criteria are not met.

Based on available data, the GHS classification criteria are not met.

Based on available data, the GHS classification criteria are not met.

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):** 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.



## **NOVATION 3600**

### 13. Disposal considerations

Description on waste residue and safety transfer method, including appropriate disposal methods of waste residues and contaminated packaging:

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

#### 14. Transport information

**UN Transport classification:** Not regulated **UN Number:** Not applicable Not applicable

Proper shipping name or technical

name:

Not applicable

**Transport hazard class:** 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. seg.

**FDA** 21CFR182.1.

#### **Thailand - Toxic Chemical Substance List**

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

#### **Thailand - Priority Management Chemical List**



## **NOVATION 3600**

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:
 12-09-2022

 Supercedes:
 11-21-2022

Revision Number: 5
Reason for revision: New

For Information Contact Thailand:



**NOVATION 3600** 

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 companies, believe to be dependable and, to our knowledge and belief is accurate. However, Ingredion Incorporated and the Ingredion group of companies cannot make any warranty or representation respecting the accuracy or completeness of the data. We assume no responsibility for any liability or damages relating thereto, or for advising you regarding the protection of your employees, customers, or others. You should make your own tests to determine the applicability of such information to, or the suitability of any products for your specific use. Ingredion Incorporated and the Ingredion group of companies expressly disclaims all warranties, expressed or implied, including but not limited to, warranties of merchantability, accuracy, fitness for use or for a particular purpose, and noninfringement. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to sales of products by Ingredion Incorporated and the Ingredion group of companies. The INGREDION mark and logo are trademarks of the Ingredion group of companies.