

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

### GHS product identifier:

Stock Number:

Product Name: NOVATION INDULGE 1720 - 31460402

### Other means of identification:

Chemical family: Starch

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

Recommended use: food starch

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:

This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.

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. Contributes to effluent BOD. 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<sub>2</sub>, 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:** Minimum ignition temperature of dust cloud- approx. 390 C. Minimum explosive concentration- approx. 80 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.10 joules.

Hazardous combustion products: Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified organic compounds.

**Special protective equipment and precautions for fire-fighters:** Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment.

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

Static Sensitivity: Yes

No special sensitivity.

Other precautions: 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. Dust masks should conform to EN 149.

**Eye protection:** Wear safety glasses. Personal eye protection should conform to EN 166.

**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: Yellow

**Odor:** Dextrin

**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

**Vapor pressure:** Not available

**Vapor density:** Not available

**Relative density:** No data available

**Solubility:** Soluble in water

**Partition coefficient: n-octanol/water:** Not available

**Heat of Decomposition:** Not available

**Auto-ignition temperature:** Not available

<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Volatiles:</b>	None
<b>Volatile Organic Chemicals:</b>	Not available

## 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>	None known.
<b>Target Organs Potentially Affected By Exposure:</b>	None known.
<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.

### 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.

#### 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 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

**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.

<b>15. Regulatory information</b>
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**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:** 08-06-2024  
**Supersedes:** 12-09-2022  
**Revision Number:** 4  
**Reason for revision:** New

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

**Disclaimer:**

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