

## Section 1: Identification of the hazardous chemical and of the supplier

### Product identifier:

Product Number:

Product Name: NOVATION INDULGE 1720 - 31460402

### Other means of identification:

Chemical family: Starch

### Recommended use of the chemical and restrictions on use:

Recommended use: food starch

Restrictions on use: Not Available

### Details of principal suppliers (including name, address, phone number, etc.):

Ingredion Malaysia Sdn. Bhd.  
Level 5, Wisma Samudra, No. 1,  
Jalan Kontraktor U1/14, Hicom-Glenmarie  
Industrial Park, 40150 Shah Alam,  
Selangor Darul Ehsan, Malaysia  
Tel: +60-3-5569-2633 (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

**Classification of the hazardous chemical:**  
**Label element:**

**GHS Hazard Symbols:** No hazard symbols required

**GHS Classification:** 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 that do not result in classification:** None known.

### Section 3: Composition and information of the ingredients of the hazardous chemical

**Substance:**

Chemical Name	Common name and synonyms	CAS No.	Concentration (% by weight)
None classified as hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).			

**Mixture:**  
Not applicable

### Section 4: First-aid measures

**Description of necessary first aid measures:**

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

**acute and delayed:** 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.

## Section 5: Fire-fighting measures

**Suitable extinguishing equipment:**

Suitable extinguishing media: CO2, Dry Chemical, Foam, Water Fog

Unsuitable extinguishing media: None known.

**Specific hazards arising from the chemical (e.g. nature of any combustion hazardous products):**

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.

## Section 6: Accidental release measures

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

Use personal protective equipment as required.

**Environmental precautions:**

No data available

**Methods and material for containment and cleaning.:**

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.

## Section 7: Handling and storage

**Precautions for safe handling:**

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

None known

Incompatibility:

<b>Section 8: Exposure controls and personal protection</b>
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**Control parameters e.g. permissible exposure limit and biological limit values:**

Chemical Name	Malaysia - Occupational Exposure Standards - TWAs	Malaysia - Occupational Exposure Standards - CEILs
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, such as personal protective equipment (PPE):**

**Respiratory protection:** NIOSH approved dust mask. Dust masks should conform to EN 149.

**Eye and face 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.

<b>Section 9: Physical and chemical properties</b>
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**Appearance (physical state, colour etc.):**

Physical State: Powder

Colour: Yellow

**Odour:** Dextrin

**Odour 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

**Vapour pressure:** Not available

**Vapour density:** Not available

**Relative density:** No data available

**Solubility:** Soluble in water

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

**Auto-ignition temperature:** Not available

**Decomposition temperature:** Not available

**Viscosity:** Not available

## Section 10: Stability and reactivity

**Reactivity:** Not expected to be reactive.

**Chemical stability:** Stable

**Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**Condition to avoid (e.g. static discharge, shock or vibration):** 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.

## Section 11: Toxicological information

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

**Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):** None known.

**Target Organs Potentially Affected By Exposure:** None known.

**Symptoms related to the 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.

<b>Acute toxicity - Dermal:</b>	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>	Wash skin with soap and water.
<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>	Based on available data, the GHS classification criteria are not met.
<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.			

**Section 12: Ecological information**

**Ecotoxicity (aquatic and terrestrial, where available):** Low, but has a BOD contribution.

**Ecological Toxicity Data:**

Chemical Name	CAS No.	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.

**Section 13: Disposal information**

**Description of waste residues and** Disposal should be in accordance with local, state or national legislation.

information on their safe handling and method of disposal, including the disposal of any contaminated packaging:

<b>Section 14: Transportation information</b>
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<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 for transport purposes:</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 user:</b>	Consult IMO regulations before transporting in bulk by ocean.

<b>Section 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.

**Malaysia Clean Air Regulation – Noxious and Offensive Substances**

Chemical Name	CAS No.	Malaysia Clean Air Regulation – Noxious and Offensive Substances
No data available		

**Malaysia Environmentally Hazardous Substances (EHS) Register**

Chemical Name	CAS No.	Malaysia Environmentally Hazardous Substances (EHS) Register
No data available		

**Malaysia Dangerous Drugs Act**

Chemical Name	CAS No.	Malaysia Dangerous Drugs Act - Part 1	Malaysia Dangerous Drugs Act - Part 2	Malaysia Dangerous Drugs Act - Part 3	Malaysia Dangerous Drugs Act - Part 4	Malaysia Dangerous Drugs Act - Part 5

No data available						
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**Montreal Protocol on Substances that Deplete the Ozone Layer**

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

**Stockholm Convention on Persistent Organic Pollutants**

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

**Section 16: Other information**

**Revision Date:** 08-06-2024  
**Supersedes:** 02-24-2023  
**Revision Number:** 4  
**Reason for revision:** New  
**Key abbreviations or acronyms used:** CAS = Chemical Abstract Service  
 DNEL= Derivative No Effect Level



EC= European Community

EINECS = European Inventory of Existing Chemical Substances

MSHA = Mine Safety Health Administration

NIOSH = National Institute of Occupational Safety & Health

OEL = Occupational Exposure Limit

PBT= Persistent, Bioaccumulative, Toxic

PNEC= Predicted No Effect Concentration

SCOEL= Scientific Committee on Occupational Exposure Limits

TLV = Threshold Limit Value

TWA= Time Weighted Average

vPvB= Very Persistent, Very Bioaccumulative

Wt.% = Weight Percent

**For Information Contact:**

Malaysia:

Ingredion Malaysia Sdn. Bhd.

Customer Service: +60-3-5569-2633

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