

## **NOVATION INDULGE 1720 - 31460402**

#### 1. Product and company identification

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 starches (food starch)

Restrictions on use: Not Available

**Supplier identification:** Ingredion Korea Incorporated

14th Floor, Bojeon Building, 725, Eonju-ro, Seoul, Korea (06050)

Tel: +82 (0)2 3485 1421 (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 Hong Kong: 800-968-793\* India: 000-800-100-7141\* Indonesia: 001-803-017-9114\* Japan: +(81)-3-4520-9637

Malaysia: +(60)-392125794, 1-800-815-308\*

New Zealand: +(64)-98010034

Philippines: +(63) 2-395-3308, 1-800-1-116-1020\* Singapore: +(65)-31581349, 800-101-2201\*

South Korea: +(82) 070-7686-0086, 00-308-13-2549\*

Taiwan: +886-2-7741-4207\*, 00801-14-8954\*

Thailand: 001-800-13-203-9987\* 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



## **NOVATION INDULGE 1720 - 31460402**

**Hazards Classification:** 

Label elements including precautionary statements:

Pictograms: No hazard symbols required

Classification according to MoEL

Notice no. 2013-37:

Not classified as hazardous

Signal Word: No signal word needed.

**Hazard Statements:** No Hazard Statement needed.

**Precautionary Statements:** No Precautionary Statement needed.

Hazard or Risk other than that included in the classification criteria (e.g., dust explosion hazard):

None known.

#### 3. Names and contents of ingredients

Chemical Name	Common name and synonyms	CAS No.	Concentration (% by weight)
No hazardous components.			

## 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 and effects,

acute and delayed, caused by

exposure:

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

Contributes to effluent BOD. Not considered as hazardous.

Indication of medical attention and

notes for physician:

No further first aid information is available.



#### **NOVATION INDULGE 1720 - 31460402**

#### 5. Fire-fighting measures

Suitable (and unsuitable) extinguishing equipment:

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

Unsuitable extinguishing media: None known.

Specific hazards arising from the

chemical:

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 necessary

**Environmental precautions and** 

protective procedures:

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

**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

Incompatibility:

None known

#### 8. Exposure controls and personal protection



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#### Occupational exposure limit values, biological limit values:

Chemical Name	Korea - ISHA - Occupational Exposure Limits - TWAs	Korea - ISHA - Occupational Exposure Limits - STELs	Korea - ISHA - Occupational Exposure Limits - CEILs
Not 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.

Personal protective equipment:

**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.

#### 9. Physical and chemical properties

#### Appearance (physical state, colour etc.):

Physical State: Powder.
Colour: Yellow
Odour: Dextrin odor
Odour Threshold: Not available
pH: Not available
pH in (1%) Solution: Not available

Melting point/freezing point:

Melting Point:

Freezing point:

Initial boiling point and boiling range:

Flash Point:

Evaporation Rate

Not available

Not available

Not applicable

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

Upper flammability or explosive limits: Not available



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Lower flammability or explosive limits: Not available

Vapour pressure:Not availableVapour density:Not availableRelative density:Not availableSolubility:Soluble

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Not available
Not available
Viscosity:

Not available
Not available
Not available
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 (e.g. static

discharge, shock or vibration, etc.):

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 on possible routes of

exposure:

None known.

**Target Organs Potentially Affected By** 

**Exposure:** 

None known.

Early onset symptoms related to

exposure:

No data available

**Toxic Effects:** This product is considered as being non-toxic. Use of good industrial

hygiene practices is recommended.

**Exposure levels and health effects:** 

Acute toxicity:

Ingestion Toxicity:

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

Acute toxicity - Dermal:

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

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**Skin corrosion/irritation:** Wash skin with soap and water.

Serious eye damage/irritation:

Respiratory sensitisation:

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

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

Carcinogenicity: None known.

**Reproductive Toxicity:**Based on available data, the classification criteria are not met. **Specific Target Organ Toxicity**Based on available data, the classification criteria are not met.

(STOT)-single exposure:

**Specific Target Organ Toxicity (STOT)** 

-repeated exposure:

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

**Aspiration hazard:** Based on available data, the classification criteria are not met.

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

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

#### 12. Ecological information

**Ecotoxicology:** Low, but has a BOD contribution.

**Ecological Toxicity Data:** 

Chemical Name	CAS No.	Aquatic LC50 Fish	Aquatic ERC50 Algae	Aquatic EC50 Crustacea
Not available				

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: Low (degrades too rapidly)

Mobility in soil: Unknown

Other adverse effects: None known.

#### 13. Disposal considerations

**Disposal methods:** Disposal should be in accordance with local, state or national legislation. **Empty container warnings:** Empty containers may contain product residue; follow MSDS and label



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warnings even after they have been emptied.

# 14. Transport information

UN number:
UN Proper shipping name:
Not Applicable
Transport hazard class:
Not Applicable
UN Packing group:
Not Applicable
Toxic Inhalation Hazard Zone:
Not available

Environmental hazards (e.g., Marine

pollutant):

Not available

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC

Code):

Not available

Special precaution that a user should be aware of or should comply with in connection with transport or conveyance either within or outside the premises: 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.

#### **Industrial Safety and Health Act:**

Che	emical Name	CAS No.	ISHA - Harmful Substance s Requiring Permissio n	ISHA - Harmful Substance s Prohibited for Manufactu ring, Importing, Transferrin g, or Supplying	ISHA - Hazardous Substance s Subject to Control - Gas- Phase Substance s	ISHA - Hazardous Substance s Subject to Control - Acids and Alkalis	ISHA - Hazardous Substance s Subject to Control – Metals	ISHA - Hazardous Substance s Subject to Control - Organic Compound s
Not	available							

#### **Toxic Chemical Control Act:**



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Chemical Name	CAS No.	MOE - Toxic Chemicals Control Act (TCCA) - Observational Chemicals	MOE - Toxic Chemicals Control Act (TCCA) - Hazard Marks
Not available			

# **Dangerous Material Safety Control Act:**

Chemical Name	CAS No.	MPSS - Dangerous Substances - Class 1 Oxidizing Solids	MPSS - Dangerous Substance s - Class 2 Flammable Solids	MPSS - Dangerous Substances - Class 3 Spontaneou sly Combustibl e Substances and Dangerous Substances when wet	MPSS - Dangero us Substan ces - Class 4 Flamma ble Liquids	MPSS - Dangerou s Substance s - Class 5 Self- Reactive Substance s	MPSS Dangerous Substances - Class 6 Oxidizing Liquids
Not available							

# **Waste Management Act:**

Chemical Name	CAS No.	MOE - Wastes Control Act – Hazardous Substances in Controlled Wastes
Not available		

# Other requirements in Korea and other countries:

Chemical Name	CAS No.	Existing Chemicals Inventory (KECI/KECL) - Annex 1	Existing Chemicals Inventory (KECI/KECL) - Annex 2	Existing Chemicals Inventory (KECI/KECL) - Annex 3
Not 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
Not available		

#### **Stockholm Convention on Persistent Organic Pollutants**

Chemical Name	CAS No.	Stockholm Convention on Persistent Organic Pollutants
Not 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
Not 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
Not available		

### 16. Other information

 Revision Date:
 02-24-2023

 Supercedes:
 11-20-2022

Revision Number: 3
Reason for revision: New

For Information Contact: Korea:

Ingredion Korea Incorporated

Tel: +82 (0)2 3485 1421

Precautionary Statements: No Precautionary Statement needed.



## **NOVATION INDULGE 1720 - 31460402**

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